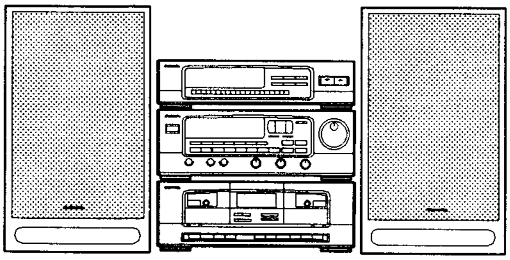
aiwa

Z-D5000M



COMPACT DISC STEREO SYSTEM

- BASIC TAPE MECHANISM : 2ZM-1
- BASIC CD MECHANISM : KSM-2101ABM
- TYPE. HE,LH,E,K,Z

※CENTER SYSTEM	AMPLIFIER	CASSETTE DECK	TUNER	SPEAKER	CD PLAYER (OPTIONAL)	TURNTABLE (OPTIONAL)
Z-D5000 HE,LH	MX-Z5000M	FX-WZ5000	TX-Z7000	※1 SX-Z5000	※2 DX-Z980M, DX-Z950M, DX-Z900M, DX-Z850, DX-Z830	※3 PX-E900, PX-E750
Z-D5000 E,K,Z	MX-Z5000M	FX-WZ7000	TX-Z7000	※1 SX-Z5000	※2 DX-Z950M, DX-Z900M, DX-Z850, DX-Z830, DX-Z7000M	※3 PX-E800, PX-E750

※1	CENTER SYSTEM dose not have※1.
※2	As to the service information of CD PLAYER, see the individual service manual of original.
※3	As to the service information of TURNTABLE see the individual service manual of original.

SERVICE MANUAL

S/M Code No. 0248 DATE OF ISSUE 4/1993-K

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SPECIFICATIONS

TUNER TX-Z7000

<FM section>

Frequency range	87.5 MHz to 108 MHz
Usable sensitivity (IHF)	2.2 µV (75 ohms) 18.2 dBf
Alternate channel selectivity	50 dB (±400 kHz)
Signal-to-noise ratio	70 dB (STEREO), 78 dB (MONO)
Harmonic distortion	0.3% (MONO), 1 kHz 0.8% (STEREO), 1 kHz
Frequency response	20 Hz to 15 kHz (+0.5 dB, −3 dB)
Stereo separation	40 dB at 1 kHz
Antenna	75 ohms (unbalanced)

<AM section> (HE, H only)

Frequency range	531 (530) kHz to 1,602(1,710) kHz
Usable sensitivity	300 µV/m
Selectivity	22 dB (9 kHz)
Signal-to-noise ratio	53 dB (100 dB input)
Antenna	Loop antenna

<MW section> (E, K, Z only)

Frequency range	522 kHz to 1.611 kHz
Usable sensitivity	400 µV/m
Selectivity	22 dB (9 kHz)
Signal-to-noise ratio	53 db (100 dB input)
Antenna	Loop antenna

<LW section> (E, K, Z only)

Frequency range	144 kHz to 290 kHz
Usable sensitivity	1,000 µV/m
Antenna	Loop antenna

<Timer section and general>

Program timer	"Once" and/or "every"
Sleep timer	Capable of setting in 10 minute increments, 99 minutes maximum
Dimensions (W×H×D)	360 x 88 x 315 mm ($14\frac{1}{4}$ x $3\frac{1}{2}$ x $12\frac{1}{2}$ in.)
Weight	2.3 kg (5.28 lb.)

AMPLIFIER MX-Z5000M

Power output	HE,H: 50W+50W (6 ohms, T.H.D. 10%, 1 kHz) E, K, Z: 40W + 40W (6 ohms, T.H.D. 1%, 1 kHz)
Harmonic distortion	0.05% (25W, 1 kHz, 6 ohms)
Input sensitivity (load impedance)	VIDEO 1/DAT: 300 mV (33 kohms) VIDEO 2/AUX: 600 mV (27 kohms)
Signal-to-noise ratio	87 dB
Power requirements	HE, H: 120/220/240 V AC selectable, 50/60 Hz E, Z: 230 V AC, 50 Hz K: 240 V AC, 50 Hz
Power consumption	HE, H: 90W (System total 110W) E,K,Z: 230W (System total 250W)
Dimensions (W×H×D)	360 x 128 x 332.5 mm ($14\frac{1}{4}$ x $5\frac{1}{8}$ x $13\frac{1}{8}$ in.)
Weight	5.4 kg (11.66 lb)

CASSETTE DECK FX-WZ5000, WZ7000

Track format	4 tracks, 2 channels
Frequency response	Metal tape: 20−17,000 Hz CrO2 tape: 20−16,000 Hz Normal tape: 20−15,000 Hz
Signal-to-noise ratio	HE, H : 65 dB (Dolby NR ON, Metal tape peak level) E, K, Z: 70 dB (Dolby C NR ON, Metal tape peak level)

SPEAKER SX-Z5000

Cabinet type	3 way, bass reflex
Speaker	220 mm cone type woofer 60 mm cone type tweeter 30 mm ceramic type super tweeter
Impedance	6 ohms
Music power	60W
Output sound pressure level	90 dB/W/m
Dimensions (W×H×D)	270 x 442 x 255 mm ($10\frac{3}{4}$ x $17\frac{1}{2}$ x $10\frac{1}{8}$ in.)
Weight	6.0 kg (13.2 lb.)

COMMON SECTION

Power requirements	HE,H: 120/220/240 V AC selectable, 50/60 Hz E, Z: 230 V AC, 50 Hz K: 240 V AC, 50 Hz
Dimensions (W×H×D)	900 x 442 x 332.5 mm ($35\frac{1}{2}$ x $17\frac{1}{2}$ x $13\frac{1}{8}$ in.) (vertical placement) 1,620 x 442 x 332.5 mm ($63\frac{7}{8}$ x $17\frac{1}{2}$ x $13\frac{1}{8}$ in.) (horizontal placement)
Weight	22.7 kg (49.94 lb.)

Design and specifications are subject to change without notice.

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
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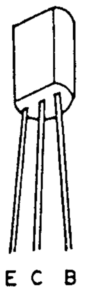
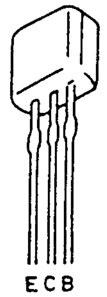
Under license from BBE Sound, Inc.

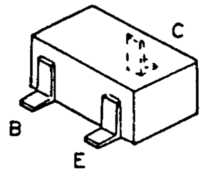
TRANSISTOR ILLUSTRATION (MX−Z5000M, FX−WZ5000, WZ7000, TX−Z7000)



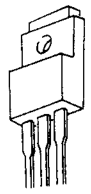
2SA1015
2SA1296
2SA1318
2SA952
2SC1815
2SC2001
2SC3266
2SC3331
2SD655
2SA1048
2SC2458
2SD1302



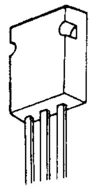
2SA933
2SC1740
DTA144ES
DTA114YS
DTC114YS
DTC144ES
2SD2144



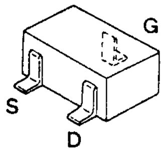
2SA1162
2SA1362
2SC1623
2SC2714
2SC3326
2SC2712
DTA114YK
DTA114EK
DTC143TK
DTC144EK
DTA123JK
2SB1354



2SB1370



2SB1354



2SK209
2SK211
2SK302
2SK368

■ ACCESSORIES／PACKAGE LIST

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q.TY
	1	82-VP2-901-010	IB、H (H,HE)	※	1
	2	82-VP2-902-010	IB、H (E,Z)	※	1
	3	82-VP2-903-010	IB、E (E,K,Z)	※	1
	4	81-748-632-010	FEEDER−ANT、FM (H,HE,E,K)		1
	5	82-VP2-644-010	RC、RC−TZ5000MF (H,HE)	※	1
	6	82-VP2-647-010	RC、RC−TZ5000ML (E,K,Z)	※	1
	7	87-006-225-010	AM LOOP ANT NC2 (H,HE,Z)		1
	8	87-006-226-010	AM LOOP ANT CON2 (E,K)		1
	9	87-009-724-010	PLUG,ADPTR、IR39 (H)		1
	10	87-042-062-010	PLUG,ADPTR、S−16115 (HE)		1
	11	87-043-106-010	FM WIRE ANT Z (Z)		1

MODEL NO.

MX－Z5000M

ELECTRICAL MAIN PARTS LIST (MX－Z5000M)

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
IC			
	87-002-950-010		IC, BA3826S
	87-002-637-010		IC, BU4051B
	87-002-247-010		IC, BU4052B
	87-002-444-010		IC, BU4094B
	82-VP2-618-010		IC, CXP82316-135Q
	87-001-530-010		IC, LA3607
	87-017-309-010		IC, M65830P
	87-017-311-080		IC, M65831FP
	87-002-220-010		IC, MPA80C
	87-017-294-010		IC, NJM2120L
	87-002-727-010		IC, NJM4558L
	87-001-134-010		IC, NJU4053BD
	87-002-429-010		IC, NJU7305L
	87-001-582-010		IC, STK4152-2
	87-002-218-010		IC, XRC5451AP
TRANSISTOR			
	87-026-463-080		TR, 2SA933S (RS)
	89-110-155-080		TR, 2SA1015GR
	89-113-187-880		TR, 2SA1318TU
	89-213-542-310		TR, 2SB1354EF
	89-213-702-010		TR, 2SB1370E
	87-026-462-080		TR, 2SC1740S (RS)
	89-318-155-080		TR, 2SC1815GR
	89-332-665-080		TR, 2SC3266GR
	89-333-317-880		TR, 2SC3331TU
	87-026-500-080		TR, 2SD2144S, UV
	89-406-555-080		TR, 2SD655E
	87-026-219-080		TR, DTA144ES
	87-026-215-080		TR, DTC114YS
DIODE			
	87-001-574-080		DIODE, 1SR139-200
	87-001-559-080		DIODE, 1SS131
	87-020-691-080		DIODE, 1SS132
	87-002-225-010		DIODE, DBF 40C-K10
	87-002-608-080		DIODE, DSF10TC
	87-001-408-080		DIODE, GP 15B
	87-027-606-080		ZENER, HZ7C2SL
	87-017-086-080		ZENER, HZS5A2
	87-017-091-080		ZENER, HZS5C1
	87-017-096-080		ZENER, HZS6A3
	87-002-743-080		ZENER, MTZJ33B
	87-001-916-080		ZENER, UTZJ10B
	87-001-911-080		ZENER, UTZJ4.7A
	87-001-912-080		ZENER, UTZJ5.1B
	87-001-913-080		ZENER, UTZJ5.6B
	87-001-915-080		ZENER, UTZJ6.8A
	87-002-430-080		ZENER, UTZJ8.2C
MAIN C.B			
C1	87-018-214-080		CAP, TC-U 0.1-50 F
C2	87-018-214-080		CAP, TC-U 0.1-50 F
C4	87-010-804-010		CAP, E 4700-42V
C5	87-010-804-010		CAP, E 4700-42V
C15	87-010-260-080		CAP, E 47-25 SME
C16	87-010-384-080		CAP, E 100-25 SME
C17	87-010-764-080		CAP, E 47-63
C27	87-010-405-080		CAP, E 10-50 SME
C28	87-010-101-080		CAP, E 220-16 SME
C29	87-010-247-080		CAP, E 100-50 SME
C60	87-010-403-080		CAP, E 3.3-50 SME
C61	87-010-374-080		CAP, E 47-10
C70	87-010-453-010		CAP, E 4700-25
C71	87-010-405-080		CAP, E 10-50 SME
C72	87-010-260-080		CAP, E 47-25 SME
C73	87-010-101-080		CAP, E 220-16 SME
C74	87-010-381-080		CAP, E 330-16 SME
C75	87-010-374-080		CAP, E 47-10
C76	87-010-374-080		CAP, E 47-10
C77	87-018-208-080		CAP, TC-U 0.047-50 F
C78	87-018-208-080		CAP, TC-U 0.047-50 F
C79	87-018-127-080		CAP, TC-U 470P-50 B
C101	87-010-404-080		CAP, E 4.7-50 SME
C102	87-010-404-080		CAP, E 4.7-50 SME
C103	87-010-406-080		CAP, E 22-50 SME
C104	87-010-374-080		CAP, E 47-10
C105	87-010-263-080		CAP, E 100-10
C106	87-010-221-080		CAP, E 470-10
C141	87-010-406-080		CAP, E 22-50 SME
C191	87-010-405-080		CAP, E 10-50 SME
C192	87-010-405-080		CAP, E 10-50 SME
C193	87-010-405-080		CAP, E 10-50 SME
C194	87-010-405-080		CAP, E 10-50 SME
C198	87-010-405-080		CAP, E 10-50 SME
C199	87-010-405-080		CAP, E 10-50 SME
C200	87-010-405-080		CAP, E 10-50 SME
C201	87-018-134-080		CAP, TC-U 0.01-16 Y
C202	87-018-134-080		CAP, TC-U 0.01-16 Y
C250	87-010-401-080		CAP, E 1-50 SME
C251	87-010-101-080		CAP, E 220-16 SME
C252	87-010-401-080		CAP, E 1-50 SME
C253	87-010-401-080		CAP, E 1-50 SME
C254	87-010-405-080		CAP, E 10-50 SME
C255	87-010-405-080		CAP, E 10-50 SME
C256	87-010-401-080		CAP, E 1-50 SME
C257	87-010-401-080		CAP, E 1-50 SME
C258	87-010-404-080		CAP, E 4.7-50 SME
C259	87-010-404-080		CAP, E 4.7-50 SME
C260	87-010-400-080		CAP, E 0.47-50 SME
C261	87-010-400-080		CAP, E 0.47-50 SME
C262	87-010-404-080		CAP, E 4.7-50 SME
C263	87-010-404-080		CAP, E 4.7-50 SME
C264	87-010-404-080		CAP, E 4.7-50 SME
C265	87-010-405-080		CAP, E 10-50 SME
C266	87-010-405-080		CAP, E 10-50 SME
C267	87-010-405-080		CAP, E 10-50 SME
C269	87-018-121-080		CAP, TC-U 150P-50 B
C270	87-018-121-080		CAP, TC-U 150P-50 B
C273	87-018-134-080		CAP, TC-U 0.01-16 Y
C274	87-018-134-080		CAP, TC-U 0.01-16 Y
C275	87-018-198-080		CAP, TC-U 2700P-16 X
C276	87-018-198-080		CAP, TC-U 2700P-16 X
C277	87-018-122-080		CAP, TC-U 180P-50 B
C278	87-018-122-080		CAP, TC-U 180P-50 B
C281	87-010-544-080		CAP, E 0.1-50
C282	87-010-544-080		CAP, E 0.1-50
C283	87-010-545-080		CAP, E 0.22-50 SME
C284	87-010-545-080		CAP, E 0.22-50 SME
C285	87-010-404-080		CAP, E 4.7-50 SME
C286	87-010-405-080		CAP, E 10-50 SME
C287	87-010-405-080		CAP, E 10-50 SME
C288	87-010-405-080		CAP, E 10-50 SME
C289	87-010-401-080		CAP, E 1-50 SME〈EXCEPT HE〉
C290	87-010-404-080		CAP, E 4.7-50 SME
C291	87-018-195-080		CAP, TC-U 1200P-16 X

REF. NO	PART NO.	ｶﾝﾘ NO.	DESCRIPTION
C292	87-018-195-080		CAP, TC-U 1200P-16 X
C293	87-018-128-080		CAP, TC-U 560P-50 B
C294	87-018-128-080		CAP, TC-U 560P-50 B
C360	87-010-404-080		CAP, E 4.7-50 SME
C501	87-010-404-080		CAP, E 4.7-50 SME
C502	87-010-404-080		CAP, E 4.7-50 SME
C503	87-010-404-080		CAP, E 4.7-50 SME
C504	87-010-404-080		CAP, E 4.7-50 SME
C505	87-010-404-080		CAP, E 4.7-50 SME
C506	87-010-404-080		CAP, E 4.7-50 SME
C507	87-010-404-080		CAP, E 4.7-50 SME
C508	87-010-404-080		CAP, E 4.7-50 SME
C509	87-018-127-080		CAP, TC-U 470P-50 B
C510	87-018-127-080		CAP, TC-U 470P-50 B
C511	87-010-402-080		CAP, E 2.2-50 SME
C512	87-010-402-080		CAP, E 2.2-50 SME
C515	87-010-546-080		CAP, E 0.33-50 SME
C516	87-010-546-080		CAP, E 0.33-50 SME
C519	87-010-544-080		CAP, E 0.1-50
C520	87-010-544-080		CAP, E 0.1-50
C526	87-018-203-080		CAP, TC-U 8200P-16 Y
C529	87-018-199-080		CAP, TC-U 3300P-16 X
C530	87-018-199-080		CAP, TC-U 3300P-16 X
C531	87-018-134-080		CAP, TC-U 0.01-16 Y
C532	87-018-134-080		CAP, TC-U 0.01-16 Y
C533	87-018-131-080		CAP, TC-U 1000P-50 B
C534	87-018-131-080		CAP, TC-U 1000P-50 B
C535	87-018-199-080		CAP, TC-U 3300P-16 X
C536	87-018-199-080		CAP, TC-U 3300P-16 X
C537	87-018-127-080		CAP, TC-U 470P-50 B
C538	87-018-127-080		CAP, TC-U 470P-50 B
C539	87-010-260-080		CAP, E 47-25 SME
C540	87-010-260-080		CAP, E 47-25 SME
C541	87-010-260-080		CAP, E 47-25 SME
C601	87-018-127-080		CAP, TC-U 470P-50 B
C602	87-010-405-080		CAP, E 10-50 SME
C630	87-010-401-080		CAP, E 1-50 SME
C631	87-018-201-080		CAP, TC-U 5600P-16 X
C632	87-018-131-080		CAP, TC-U 1000P-50 B
C634	87-010-374-080		CAP, E 47-10
C635	87-018-209-080		CAP, TC-U 0.1-50 F
C636	87-018-209-080		CAP, TC-U 0.1-50 F
C638	87-018-201-080		CAP, TC-U 5600P-16 X
C639	87-018-131-080		CAP, TC-U 1000P-50 B
C640	87-010-401-080		CAP, E 1-50 SME
C641	87-018-201-080		CAP, TC-U 5600P-16 X
C642	87-010-374-080		CAP, E47-10
C644	87-010-405-080		CAP, E 10-50 SME
C645	87-010-405-080		CAP, E 10-50 SME
C646	87-018-115-010		CAP, TC-U 47P-50 SL
C647	87-018-115-010		CAP, TC-U 47P-50 SL
C648	87-010-404-080		CAP, E 4.7-50 SME
C649	87-010-406-080		CAP, E 22-50 SME
C670	87-010-405-080		CAP, E 10-50 SME
C671	87-010-400-080		CAP, E 0.47-50 SME
C681	87-016-072-080		CAP, E 0.47-50 FX
C682	87-016-072-080		CAP, E 0.47-50 FX
C683	87-010-401-080		CAP, E 1-50 SME
C684	87-010-401-080		CAP, E 1-50 SME
C685	87-010-400-080		CAP, E 0.47-50 SME
C686	87-010-400-080		CAP, E 0.47-50 SME
C687	87-010-401-080		CAP, E 1-50 SME
C688	87-010-401-080		CAP, E 1-50 SME
C689	87-016-096-080		CAP, E 47-16 FX
C690	87-016-096-080		CAP, E 47-16 FX
C691	87-010-401-080		CAP, E 1-50 SME
C692	87-010-401-080		CAP, E 1-50 SME
C693	87-010-402-080		CAP, E 2.2-50 SME
C694	87-010-402-080		CAP, E 2.2-50 SME
C695	87-010-400-080		CAP, E 0.47-50 SME
C696	87-010-401-080		CAP, E 1-50 SME
C697	87-010-403-080		CAP, E 3.3-50 SME
C698	87-010-403-080		CAP, E 3.3-50 SME
C699	87-010-544-080		CAP, E 0.1-50
C701	87-010-405-080		CAP, E 10-50 SME

REF. NO	PART NO.	ｶﾝﾘ NO.	DESCRIPTION
C702	87-010-405-080		CAP, E 10-50 SME
C703	87-018-128-080		CAP, TC-U 560P-50 B
C704	87-018-128-080		CAP, TC-U 560P-50 B
C758	87-010-408-080		CAP, E 47-50 SME
C759	87-010-374-080		CAP, E 47-10
C760	87-010-374-080		CAP, E 47-10
C761	87-018-111-080		CAP, TC-U 27P-50 SL
C762	87-018-111-080		CAP, TC-U 27P-50 SL
C763	87-010-260-080		CAP, E 47-25 SME
C764	87-010-260-080		CAP, E 47-25 SME
C765	87-018-214-080		CAP, TC-U 0.1-50 F
C766	87-018-214-080		CAP, TC-U 0.1-50 F
C769	87-018-134-080		CAP, TC-U 0.01-16 Y〈Z〉
C770	87-018-134-080		CAP, TC-U 0.01-16 Y〈Z〉
C800	87-018-134-080		CAP, TC-U 0.01-16 Y
J280	87-099-277-010		JACK 6.3 W/S
J281	87-099-064-010		JACK 6.3 W/S
J283	87-099-064-010		JACK 6.3 W/S
J750	81-VP1-634-010		JACK, PIN 3P
J751	81-VP1-634-010		JACK, PIN 3P
J752	81-VP1-634-010		JACK, PIN 3P
J753	87-009-393-010		JACK, PIN 2P EARTH
J754	87-009-063-010		CONN, 11P FG
J755	87-009-877-010		CONN, 9P FG
J756	87-009-063-410		CONN, 11P BLU
J759	87-009-393-010		JACK, PIN 2P
J760	87-033-225-010		TERMINAL, SP-4PN
L642	87-003-152-080		COIL, 100UH
L751	87-005-366-010		COIL, 1UH〈Z〉
L752	87-005-366-010		COIL, 1UH〈Z〉
R25	87-022-450-090		RES, NF 100-1/2WJ FMG〈E, K, Z〉
R26	87-022-450-090		RES, NF 100-1/2WJ FMG〈E, K, Z〉
R40	87-022-050-080		RES, METAL 1W-0.22J
R45	87-022-050-080		RES, METAL 1W-0.22J
R777	87-022-050-080		RES, METAL 1W-0.22J
R778	87-022-050-080		RES, METAL 1W-0.22J
R779	87-022-050-080		RES, METAL 1W-0.22J
R780	87-022-050-080		RES, METAL 1W-0.22J
RY1	87-045-335-010		RELAY, G5Z-2A 12VDC
VR141	81-MT3-631-010		VR, 50KBX2 (INPUT LEVEL)
VR281	81-VP1-622-010		VR, 10KA RK11K112
VR282	81-VP1-622-010		VR, 10KA RK11K112
VR372	81-VP1-627-010		VR, 100KW RK11K112
X630	87-030-172-010		VIB, CER CSB1000J

RELAY C.B

REF. NO	PART NO.	ｶﾝﾘ NO.	DESCRIPTION
J757	87-009-413-010		CONN, 4P FG

FRONT C.B

REF. NO	PART NO.	ｶﾝﾘ NO.	DESCRIPTION
C1	87-010-401-080		CAP, E 1-50 SME
C2	87-010-401-080		CAP, E 1-50 SME
C3	87-010-405-080		CAP, E 10-50 SME
C5	87-010-550-040		CAP, E 100-6.3 GAS
C15	87-018-134-080		CAP, TC-U 0.01-16 Y
C16	87-018-134-080		CAP, TC-U 0.01-16 Y
C19	87-018-131-080		CAP, TC-U 1000P-50 B
C21	87-010-401-080		CAP, E 1-50 SME
C25	87-018-134-080		CAP, TC-U 0.01-16 Y
C151	87-018-134-080		CAP, TC-U 0.01-16 Y
C153	87-018-134-080		CAP, TC-U 0.01-16 Y
C160	87-010-263-080		CAP, E 100-10
C370	87-018-134-080		CAP, TC-U 0.01-16 Y〈HE〉
C382	87-018-201-080		CAP, TC-U 5600P-16 X〈HE〉
C383	87-018-131-080		CAP, TC-U 1000P-50 B〈HE〉
C384	87-018-209-080		CAP, TC-U 0.1-50 F〈HE〉
C385	87-010-374-080		CAP, E 47-10〈HE〉
C388	87-018-209-080		CAP, TC-U 0.1-50 F〈HE〉
C389	87-018-201-080		CAP, TC-U 5600P-16 X〈HE〉
C390	87-018-131-080		CAP, TC-U 1000P-50 B〈HE〉
C391	87-010-401-080		CAP, E 1-50 SME〈HE〉
C392	87-018-213-080		CAP, TC-U 0.047-50F〈HE〉
C394	87-018-209-080		CAP, TC-U 0.1-50 F〈HE〉
CSA1	87-008-497-080		CERALOCK CST7.68MTW

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
FL1	82-VP2-615-010		FL, BJ124GK
L1	87-003-098-080		COIL, 2.2UH
L2	87-003-098-080		COIL, 2.2UH
L5	87-003-102-080		COIL, 10UH
SW1	87-036-215-080		SW, TACT EVQ-21404M
SW2	87-036-215-080		SW, TACT EVQ-21404M
SW3	87-036-215-080		SW, TACT EVQ-21404M
SW4	87-036-215-080		SW, TACT EVQ-21404M
SW5	87-036-215-080		SW, TACT EVQ-21404M
SW6	87-036-215-080		SW, TACT EVQ-21404M
SW7	87-036-215-080		SW, TACT EVQ-21404M
SW8	87-036-215-080		SW, TACT EVQ-21404M
SW9	87-036-215-080		SW, TACT EVQ-21404M
SW10	87-036-215-080		SW, TACT EVQ-21404M
SW11	87-036-215-080		SW, TACT EVQ-21404M
SW12	87-036-215-080		SW, TACT EVQ-21404M
SW13	87-036-215-080		SW, TACT EVQ-21404M
SW14	87-036-215-080		SW, TACT EVQ-21404M
SW15	87-036-215-080		SW, TACT EVQ-21404M
SW16	87-036-215-080		SW, TACT EVQ-21404M
SW17	87-036-215-080		SW, TACT EVQ-21404M
SW18	87-036-215-080		SW, TACT EVQ-21404M
SW19	87-036-215-080		SW, TACT EVQ-21404M
SW20	87-036-215-080		SW, TACT EVQ-21404M
SW21	87-036-215-080		SW, TACT EVQ-21404M
SW22	87-036-215-080		SW, TACT EVQ-21404M
SW23	87-036-215-080		SW, TACT EVQ-21404M
SW24	87-036-215-080		SW, TACT EVQ-21404M
SW25	87-036-215-080		SW, TACT EVQ-21404M
SW26	87-036-215-080		SW, TACT EVQ-21404M
SW27	87-036-215-080		SW, TACT EVQ-21404M
VR370	82-VP2-636-010		VR, SL 10K B〈HE〉
X301	87-008-496-080		CERALOCK CST2.0MG〈HE〉

VOLUME C.B

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
C201	87-010-405-080		CAP, E 10-50 SME
C202	87-010-405-080		CAP, E 10-50 SME
C203	87-010-404-080		CAP, E 4.7-50 SME
C204	87-010-404-080		CAP, E 4.7-50 SME
C205	87-010-404-080		CAP, E 4.7-50 SME
C206	87-010-404-080		CAP, E 4.7-50 SME
C210	87-018-134-080		CAP, TC-U 0.01-16 Y
VR1	82-VP2-639-010		VR, 50KBX2 MOTOR

AC C.B

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
R70	87-022-184-080		RES, METAL 0.33-1W
R96	87-022-200-080		RES, METAL 0.56-1W
R97	87-022-200-080		RES, METAL 0.56-1W

AC VOLTAGE C.B

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
⚠F1	87-035-366-010		FUSE, 2.5A 250V T, E/K〈HE, H〉
⚠SW1	87-036-229-010		SW, SL DP3CRA〈HE, H〉
	87-033-213-010		CLAMP, FUSE SMK〈HE, H〉
	82-304-743-010		TERMINAL, 1P

MISCELLANEOUS

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
⚠PT1	82-VP2-624-010		PT, 2VP-2 E.K〈E, K, Z〉
⚠PT1	82-VP2-622-010		PT, 2VP-2 H〈HE, H〉
⚠	87-050-016-010		AC CORD ASSY, E〈E, Z〉
⚠	87-050-034-010		AC CORD ASSY, E〈HE〉
⚠	87-050-029-010		AC CORD ASSY, K 3P〈K〉
⚠	87-034-749-010		AC CORD, H W/PLUG〈H〉
⚠	87-085-184-010		BUSHING, AC CORD D〈H〉
⚠	87-085-185-010		BUSHING, AC CORD E〈EXCEPT H〉

IC DESCRIPTION (MX – Z5000M)

IC, CXP82316

Pin No.	Pin Name	I/O	Description
1	$\overline{\text{HOLD}}$	I	HOLD mode at "Low" and normal mode at "High".
2	REMOTE	I	Remote control signal input.
3 ≀ 5	N C	–	Not used.
6	$\overline{\text{CS (DSP)}}$	O	Chip Select output for DSP IC. "L" active.
7	N C	–	Not used
8	CLK	O	Serial data clock signal.
9	CLK (GEQ)	O	Clock signal output for GEQ IC NJU7305.
10	DATA	O	Serial data output.
11	$\overline{\text{SERIAL}}$	I/O	Serial signal for system controller (8 bit).
12	STB	O	Strobe signal output.
13	N C	O	Not used.
14	S16	O	FL display segment output.
15	S5		
16	S28		
17	S17		
18	S6		
19	S29		
20	INTIAL	I	Initialize signal.
21	$\overline{\text{VOL LED}}$	O	VOL LED display output.
22	KEY1	I	Key A/D input.
23	KEY2	I	
24	N C	–	Not used.
25	KEY4	I	Key A/D input.
26	FS RST	O	Output to reset output of IC BA3826.
27	SPEANA	I	Spectrum analyzer display input.
28	MIC	I	Mic signal input. Vocal fader turns on when this input is more than 3.4V in vocal fader mode.
29	N C	–	Not used.
30	$\overline{\text{RESET}}$	I	Reset signal for microcomputer.
31	E.XTAL	–	Crystal connection terminal for oscillating system clock.
32	XTAL	–	
33	VSS	–	GND.
34 ≀ 60	S1 ≀ S33	O	FL Display segment output. S37~S39 are also used for band selection of spectrum analyzer.
61 ≀ 70	G9 ≀ G1	O	FL Display grid drive signal.
71	VFDP	–	Negative power supply (–30V).
72	VDD	–	Power supply (4.9V).
73	N C	–	Not used.
74	VOL UP	O	MOTOR VOL UP output.

Pin No.	Pin Name	I/O	Description
75	VOL DOWN	O	MOTOR VOL DOWN output.
76	MUTE	O	Audio MUTE output.
77	$\overline{\text{PWR}}$	O	Power ON/OFF control output.
78	GRID	I	GRID input for microcomputer extention.
79	G1	I	G1 input for microcomputer extention.
80	N C	–	Not used.

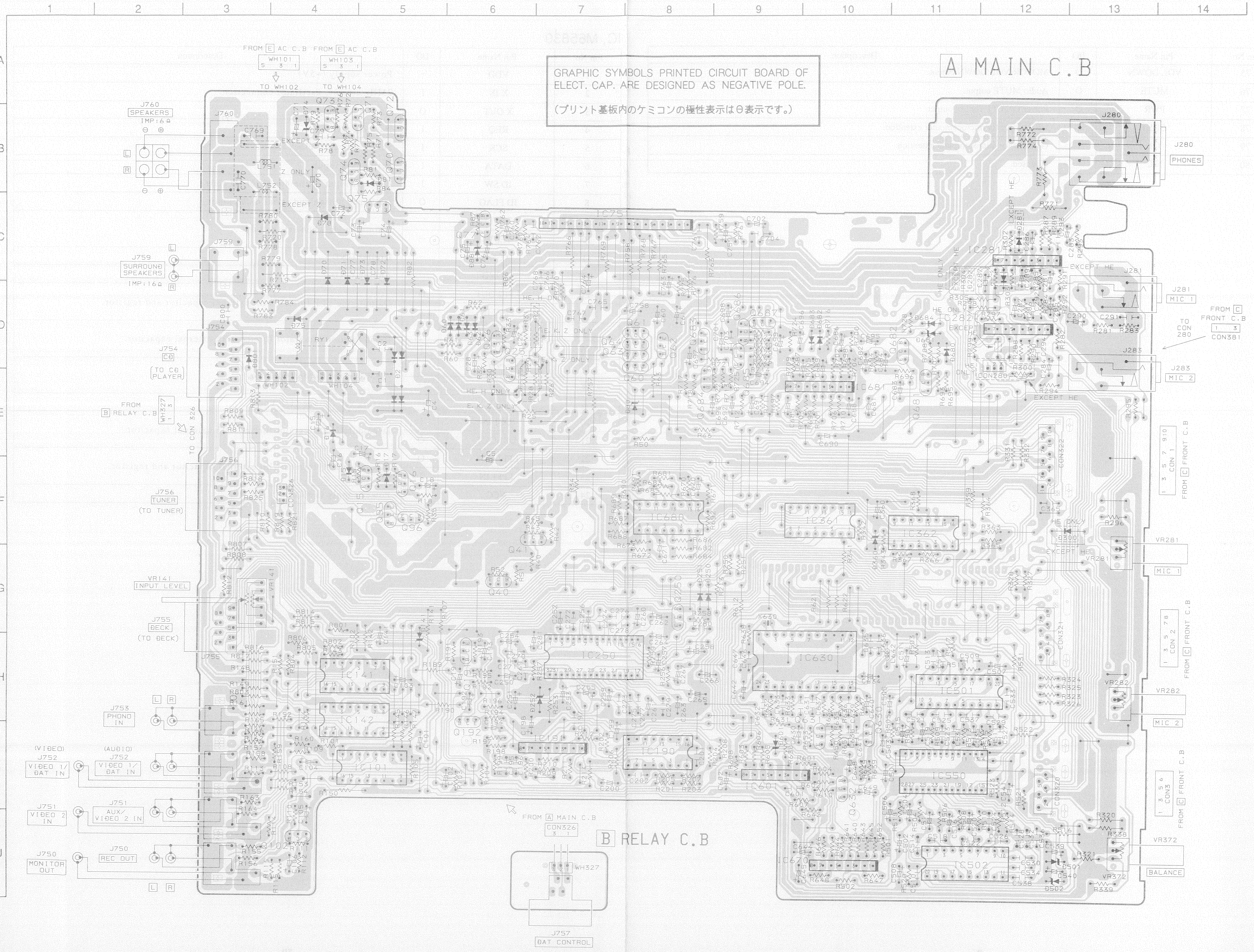
IC, M65830

Pin No.	Pin Name	I/O	Description
1	VDD	–	Power supply (+5V).
2	X IN	I	2MHz ceramic oscillator connection.
3	X OUT	O	Oscillation output.
4	REQ	I	Data reguest input.
5	SCK	I	Serial data shift clock input.
6	DATA	I	Serial data input.
7	ID SW	I	External input of the 4th bit of ID code.
8	ID FLAG	O	Data recognition and serial data output.
9	TEST1	–	Normal mode when set to "Low".
10	TEST2	–	
11	D GND	–	Digital GND.
12	A GND	–	Analog GND.
13	LPF2 OUT	O	Output-side LPF formed with external capacitor and registor.
14	LPF2 IN	I	
15	OP2 OUT	O	Demodulation integrator formed with external capacitor.
16	OP2 IN	I	
17	CC2	–	ADM control for demodulator.
18	CC1	–	
19	REF	–	Analog ref voltage (1/2 Vcc).
20	OP1 IN	I	Demodulation integrator formed with external capacitor.
21	OP1 OUT	O	
22	LPF1 OUT	O	Input-side LPF formed with external capacitor and registor.
23	LPF1 IN	I	
24	VCC	–	Power supply (+5V).

WIRING – 1 (MX – Z5000M)

GRAPHIC SYMBOLS PRINTED CIRCUIT BOARD OF ELECT. CAP. ARE DESIGNED AS NEGATIVE POLE.

（プリント基板内のケミコンの極性表示は⊖表示です。）


1
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A
B
C
D
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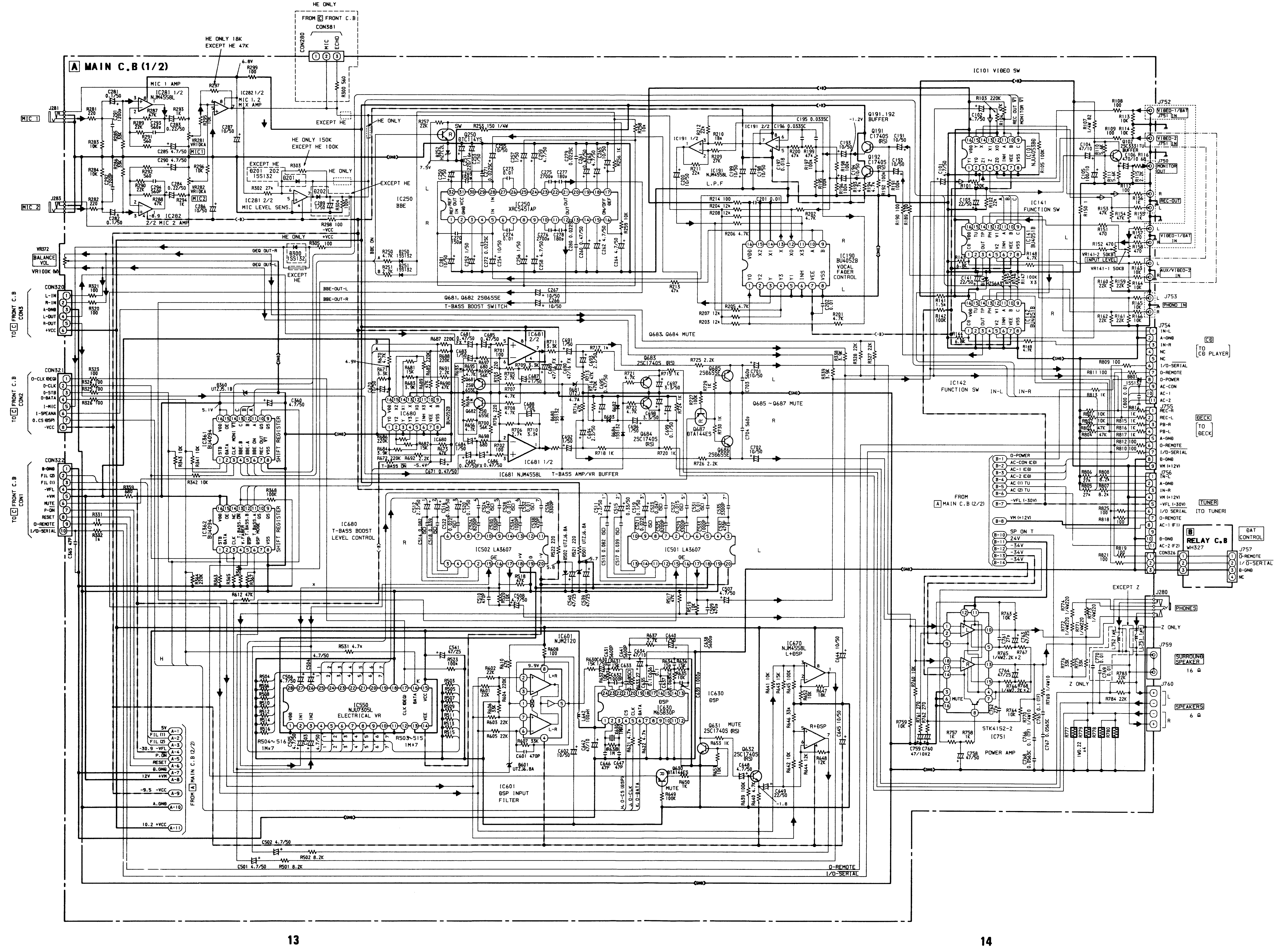
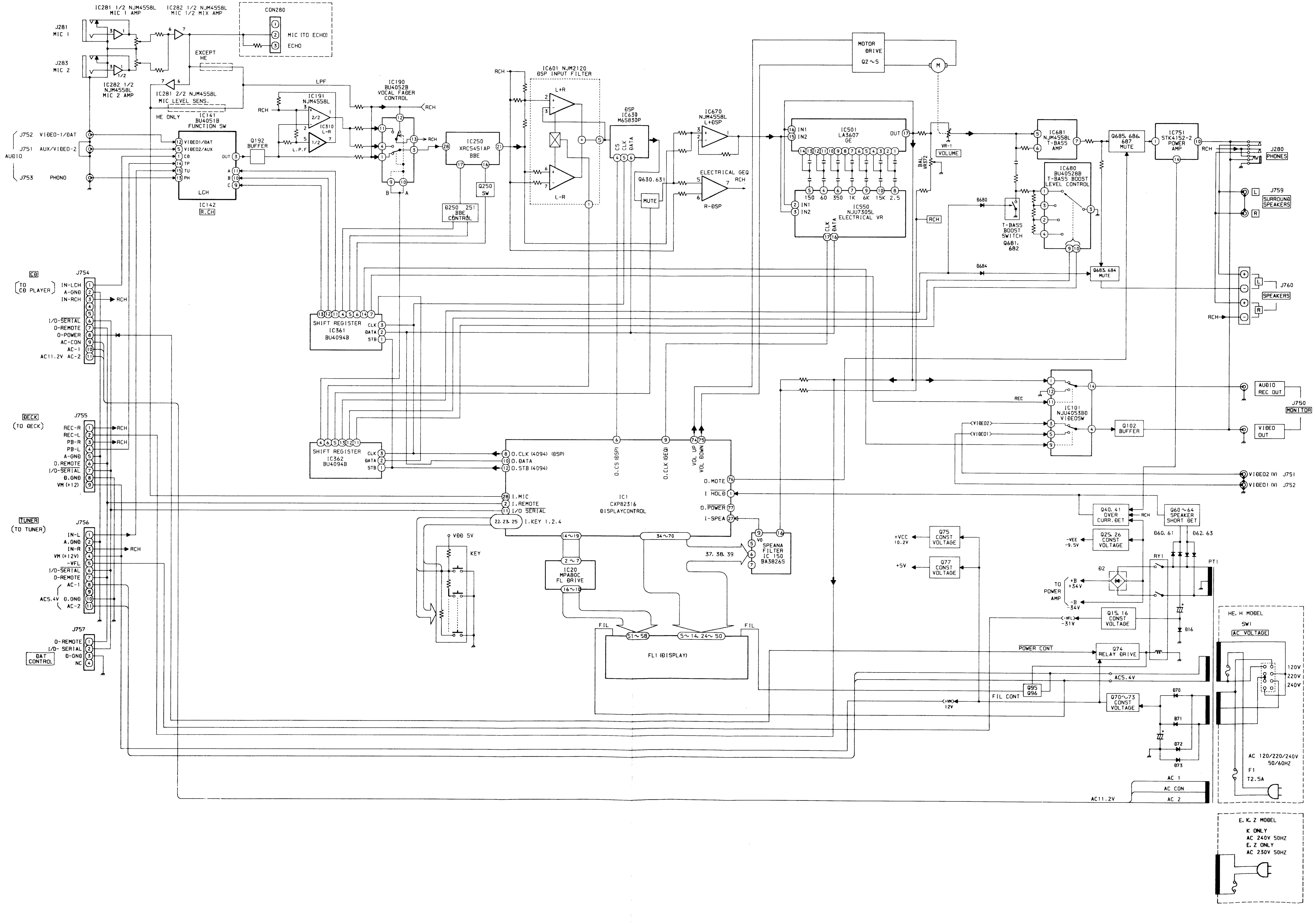
F
G
H
I
J
A MAIN C.B
B RELAY C.B
FROM E AC C.B WH101 TO WH102
FROM E AC C.B WH103 TO WH104
J760 SPEAKERS IMP:6Ω
L
R
J759 SURROUND SPEAKERS IMP:16Ω
J754 CD (TO CD PLAYER)
FROM B RELAY C.B WH327 TO CON 326
J756 TUNER (TO TUNER)
VR141 INPUT LEVEL
J755 DECK (TO DECK)
J753 PHONO IN
(VIDEO) J752 VIDEO 1/DAT IN
(AUDIO) J752 VIDEO 1/DAT IN
J751 VIDEO 2 IN
J751 AUX/VIDEO 2 IN
J750 MONITOR OUT
J750 REC OUT
J280 PHONES
J281 MIC 1
FROM C FRONT C.B CON381 TO CON 280
J283 MIC 2
FROM C FRONT C.B CON 1
VR281 MIC 1
FROM C FRONT C.B CON 2
VR282 MIC 2
FROM C FRONT C.B CON3
VR372 BALANCE
FROM A MAIN C.B CON326
WH327
J757 DAT CONTROL
IC75
IC281
IC282
IC681
IC680
IC361
IC362
IC250
IC630
IC141
IC142
IC191
IC190
IC101
IC60
IC501
IC550
IC502
IC670
RY1
EXCEPT Z
Z ONLY
HE, H ONLY
E, K, Z ONLY
EXCEPT HE
HE ONLY

SCHEMATIC DIAGRAM – 1 (MX – Z5000M)

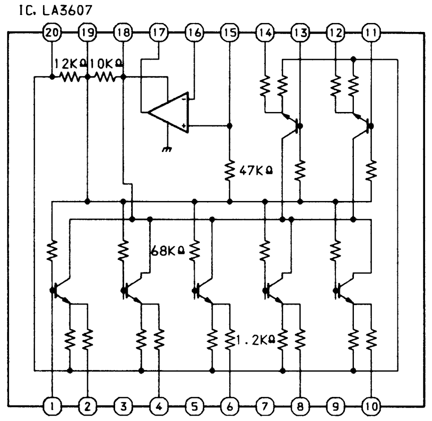

A MAIN C.B (1/2)
HE ONLY
FROM C FRONT C.B
CON381
CON280
MIC
ECHO
HE ONLY 18K
EXCEPT HE 47K
MIC 1 AMP
IC281 1/2
NJM4558L
IC282 1/2
MIC 1, 2
MIX AMP
MIC 1
MIC 2
2/2 MIC 2 AMP
IC281 2/2
MIC LEVEL SENS.
HE ONLY 150K
EXCEPT HE 100K
EXCEPT HE
HE ONLY
IC250
BBE
XRC5451AP
Q250
DTC114YS
IC101 VIDEO SW
NJU4053BD
IC191 1/2
IC191 2/2
NJM4558L
L.P.F
Q191, 192
BUFFER
Q191
2SC1740S
Q192
IC190
BU4052B
VOCAL FADER CONTROL
IC141
FUNCTION SW
BU4051B
IC142
FUNCTION SW
Q102
2SC3331TU
BUFFER
J752
VIDEO-1/DAT IN
J751 IN
VIDEO-2 IN
MONITOR OUT
J750
REC-OUT
VIDEO-1/DAT IN
AUX/VIDEO-2 IN
J753
PHONO IN
VR141-2 50KB
INPUT LEVEL
VR141-1 50KB
VR372
BALANCE VOL.
VR100K (M)
CON320
TO C FRONT C.B CON3
L-IN
R-IN
A-GND
L-OUT
R-OUT
+VCC
CON321
TO C FRONT C.B CON2
D-CLK (DEQ)
D-CLK
D-STB
D-DATA
I-MIC
I-SPEANA
O.CS (DSP)
-VCC
CON322
TO C FRONT C.B CON1
D-GND
FIL (2)
FIL (1)
-VFL
+VM
MUTE
P-ON
RESET
O-REMOTE
I/O-SERIAL
DEQ OUT-R
DEQ OUT-L
BBE-OUT-L
BBE-OUT-R
Q681, Q682 2SD655E
T-BASS BOOST SWITCH
Q683, Q684 MUTE
IC361
BU4094
SHIFT REGISTER
IC362
BU4094
IC680
BU4052B
T-BASS BOOST LEVEL CONTROL
IC681 1/2
IC681 2/2
IC681 NJM4558L
T-BASS AMP/VR BUFFER
Q683
2SC1740S (RS)
Q684
2SC1740S (RS)
Q685
2SD655E
Q686
2SD655E
Q687
DTA144ES
Q685 ~ Q687 MUTE
IC502 LA3607
IC501 LA3607
IC550
NJU7305L
ELECTRICAL VR
R504~516 1M×7
R503~515 1M×7
IC601
NJM2120
DSP INPUT FILTER
IC630
M65830P
DSP
Q631 MUTE
2SC1740S (RS)
Q632
2SC1740S (RS)
Q630
DTA144ES
MUTE
IC670
NJM4558L
L+DSP
R+DSP
IC751
STK4152-2
POWER AMP
FROM A MAIN C.B (2/2)
5V
FIL (1)
FIL (2)
-30.9 -VFL
P.ON
RESET
8.GND
12V +VM
-9.5 -VCC
A.GND
10.2 +VCC
O-REMOTE
I/O-SERIAL
C502 4.7/50
R502 8.2K
C501 4.7/50
R501 8.2K
J754
IN-L
A-GND
IN-R
NC
I/O-SERIAL
O-REMOTE
O-POWER
AC-CON
AC-1
AC-2
TO CD PLAYER
J755
REC-R
REC-L
PB-R
PB-L
A-GND
O-REMOTE
I/O-SERIAL
D-GND
TO DECK
J756
IN-L
A-GND
IN-R
VM (+12V)
-VFL (-30V)
I/O SERIAL
O-REMOTE
AC-1 (F1)
D-GND
AC-2 (F2)
TUNER
TO TUNER
CON326
B RELAY C.B
WH327
DAT CONTROL
J757
O-REMOTE
I/O-SERIAL
D-GND
NC
O-POWER
AC-CON (CD)
AC-2 (CD)
AC-1 (CD)
AC (1) TU
AC (2) TU
-VFL (-30V)
VM (+12V)
SP ON T
24V
-34V
EXCEPT Z
J280
PHONES
Z ONLY
J759
SURROUND SPEAKER
16 Ω
J760
SPEAKERS
6 Ω
L
R

BLOCK DIAGRAM (MX – Z5000M)

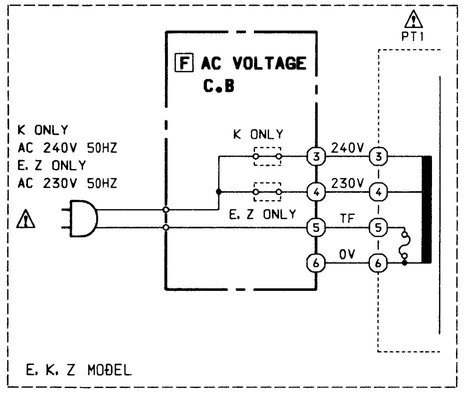

J281 MIC 1
J283 MIC 2
IC281 1/2 NJM4558L MIC 1 AMP
IC282 1/2 NJM4558L MIC 1/2 MIX AMP
IC282 1/2 NJM4558L MIC 2 AMP
IC281 2/2 NJM4558L MIC LEVEL SENS.
CON280
MIC (TO ECHO)
ECHO
EXCEPT HE
HE ONLY
LPF
IC191 NJM4558L
IC310 L-R
L.P.F
IC190 BU4052B VOCAL FADER CONTROL
RCH
Q192 BUFFER
IC141 BU4051B FUNCTION SW
IC142 R.CH
LCH
J752 VIDEO-1/DAT
J751 AUX/VIDEO-2
AUDIO
J753 PHONO
IC250 XRC5451AP BBE
Q250 SW
Q250 251 BBE CONTROL
IC601 NJM2120 DSP INPUT FILTER
L+R
L-R
DSP IC630 M65830P
CS CLK DATA
Q630, 631
MUTE
IC670 NJM4558L L+DSP
ELECTRICAL GEQ
R-DSP
MOTOR DRIVE Q2~5
M
IC501 LA3607 GE
IN1 IN2 OUT
150 60 350 1K 6K 15K 2.5
IC550 NJU7305L ELECTRICAL VR
CLK DATA
VR-1 VOLUME
BAL VR972
IC681 NJM4558L T-BASS AMP
IC680 BU4052B T-BASS BOOST LEVEL CONTROL
D680
T-BASS BOOST SWITCH Q681, 682
D684
Q683, 684 MUTE
Q685, 686, 687 MUTE
IC751 STK4152-2 POWER AMP
J280 PHONES
J759 SURROUND SPEAKERS
J760 SPEAKERS
CD
TO CD PLAYER
J754
IN-LCH
A-GND
IN-RCH
I/O-SERIAL
O-REMOTE
O-POWER
AC-CON
AC-1
AC11.2V AC-2
SHIFT REGISTER IC361 BU4094B
CLK DATA STB
DECK (TO DECK)
J755
REC-R
REC-L
PB-R
PB-L
A-GND
D.REMOTE
I/O-SERIAL
D.GND
VM (+12)
SHIFT REGISTER IC362 BU4094B
TUNER (TO TUNER)
J756
IN-L
A.GND
IN-R
VM (+12V)
-VFL
I/O-SERIAL
O-REMOTE
AC-1
AC5.4V D.GND
AC-2
J757
O-REMOTE
I/O-SERIAL
D-GND
NC
DAT CONTROL
O.CLK (4094) (DSP)
O.DATA
O.STB (4094)
O.CS (DSP)
O.CLK (GEQ)
VOL UP
VOL DOWN
O.MUTE
I HOLD
O.POWER
I-SPEA
I.MIC
I.REMOTE
I/O SERIAL
I.KEY 1.2.4
IC1 CXP82316 DISPLAYCONTROL
VDD 5V
KEY
IC20 MPA80C FL DRIVE
SPEANA FILTER IC150 BA3826S
37, 38, 39
FIL
FL1 (DISPLAY)
IC101 NJU4053BD VIDEOSW
REC
Q102 BUFFER
AUDIO REC OUT
J750 MONITOR
VIDEO OUT
VIDEO2 (V) J751
VIDEO1 (V) J752
Q40, 41 OVER CURR. DET
Q60~64 SPEAKER SHORT DET
D60, 61
D62, 63
Q25, 26 CONST VOLTAGE
-VEE -9.5V
Q75 CONST VOLTAGE
+VCC 10.2V
Q77 CONST VOLTAGE
+5V
RY1
PT1
D2
TO POWER AMP
+B +34V
-B -34V
Q15, 16 CONST VOLTAGE
-VFL -31V
D16
POWER CONT
Q74 RELAY DRIVE
AC5.4V
Q95 Q96
FIL CONT
+VM 12V
Q70~73 CONST VOLTAGE
D70 D71 D72 D73
HE, H MODEL
SW1
AC VOLTAGE
120V 220V 240V
AC 120/220/240V 50/60HZ
F1 T2.5A
AC 1
AC CON
AC 2
AC11.2V
E, K, Z MODEL
K ONLY AC 240V 50HZ
E, Z ONLY AC 230V 50HZ

SCHEMATIC DIAGRAM – 2 (MX – Z5000M)

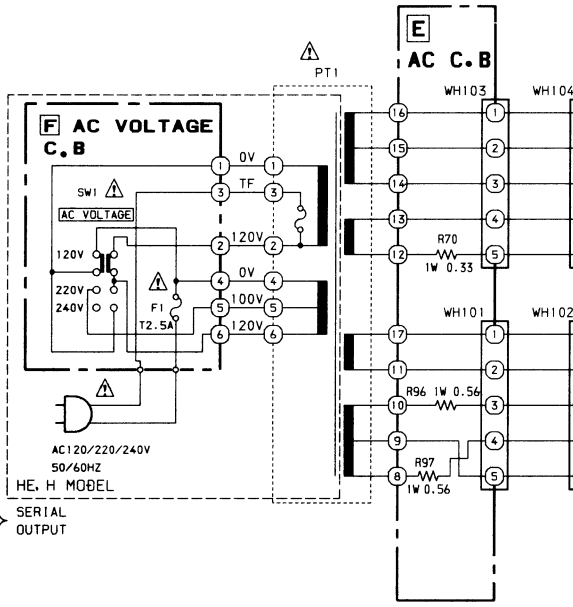
IC. LA3607



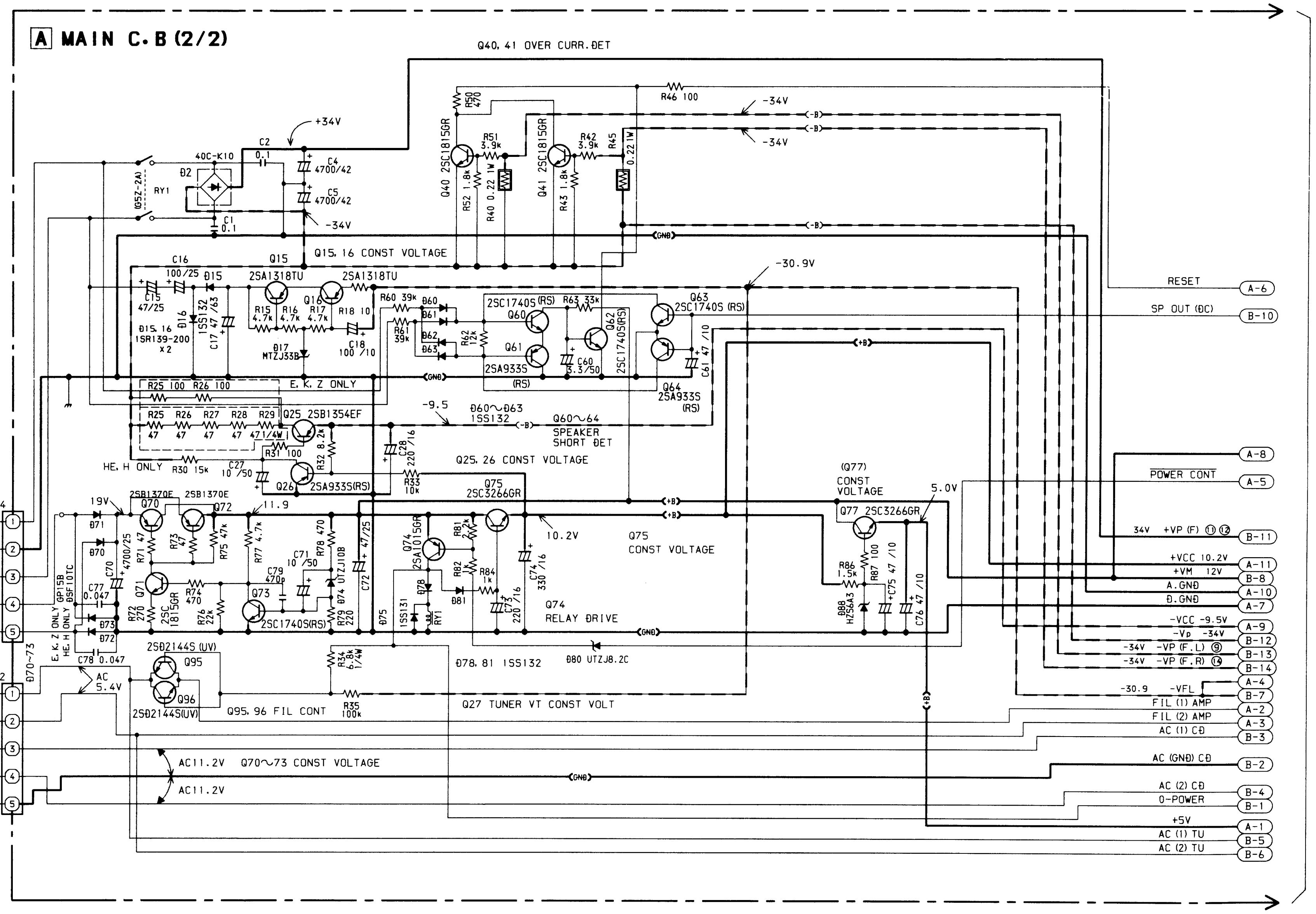
20 19 18 17 16 15 14 13 12 11
12KΩ
10KΩ
47KΩ
68KΩ
1.2KΩ
1 2 3 4 5 6 7 8 9 10



F AC VOLTAGE C.B
PT1
K ONLY
AC 240V 50HZ
E, Z ONLY
AC 230V 50HZ
K ONLY
E, Z ONLY
240V
230V
TF
0V
E. K. Z MODEL

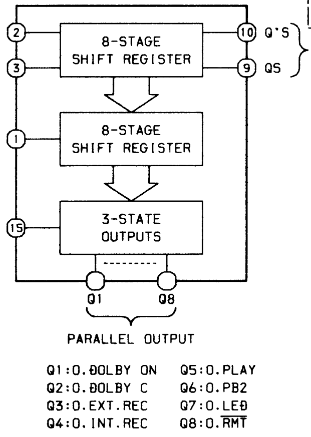


F AC VOLTAGE C.B
SW1
AC VOLTAGE
120V
220V
240V
F1 T2.5A
0V
TF
120V
0V
100V
120V
AC120/220/240V
50/60HZ
HE. H MODEL
PT1
E AC C.B
WH103
WH101
R70 1W 0.33
R96 1W 0.56
R97 1W 0.56



A MAIN C.B (2/2)
Q40, 41 OVER CURR. DET
+34V
C2 0.1
40C-K10
D2
RY1
C4 4700/42
C5 4700/42
C1 0.1
-34V
Q40 2SC1815GR
R50 470
R51 3.9k
R52 1.8k
R40 0.22 1W
Q41 2SC1815GR
R42 3.9k
R43 1.8k
R45 0.22 1W
R46 100
-34V
-34V
Q15, 16 CONST VOLTAGE
C16 100/25
D15
Q15 2SA1318TU
Q16 2SA1318TU
C15 47/25
D15, 16 1SR139-200 x2
D16 1SS132
C17 47/63
R15 4.7k
R16 4.7k
R17 4.7k
R18 10
D17 MTZJ33B
C18 100/10
R60 39k
D60
D61
R61 39k
D62
D63
R62 12k
2SC1740S (RS)
Q60
R63 33k
Q61
2SA933S (RS)
Q62 2SC1740S(RS)
C60 3.3/50
Q63 2SC1740S (RS)
C61 47/10
Q64 2SA933S (RS)
-30.9V
R25 100 R26 100
E. K. Z ONLY
R25 R26 R27 R28 R29
47 47 47 47 47 1/4W
Q25 2SB1354EF
HE. H ONLY
R30 15k
R31 100
R32 8.2k
C27 10/50
Q26 2SA933S(RS)
-9.5
D60～D63 1SS132
Q60～64 SPEAKER SHORT DET
C28 220/16
R33 10k
Q25, 26 CONST VOLTAGE
Q75 2SC3266GR
19V
2SB1370E
Q70
2SB1370E
Q72
11.9
D71
D70
C70 4700/25
R71 47
R73 47
R75 47k
R77 4.7k
R78 470
C72 47/25
Q71 2SC1815GR
R72 270
C77 0.047
R74 470
R76 22k
C71 10/50
C79 470p
Q73 2SC1740S(RS)
R79 220
D74 UTZJ10B
D73
D72
C78 0.047
D70～73
E. K. Z ONLY
HE. H ONLY
AC 5.4V
2SD2144S (UV)
Q95
Q96
2SD2144S(UV)
Q95, 96 FIL CONT
R34 6.8k 1/4W
R35 100k
Q74 2SA1015GR
R81 47k
R82 22k
R84 1k
D81
D78
RY1
C73 220/16
C74 330/16
10.2V
Q75 CONST VOLTAGE
Q74 RELAY DRIVE
D75
1SS131
D78, 81 1SS132
D80 UTZJ8.2C
Q27 TUNER VT CONST VOLT
(Q77) CONST VOLTAGE
Q77 2SC3266GR
5.0V
R86 1.5k
R87 10
C75 47/10
C76 47/10
D88 HZS6A3
WH104
WH102
AC11.2V
Q70～73 CONST VOLTAGE
AC11.2V
RESET
SP OUT (DC)
POWER CONT
34V +VP (F) ① ⑫
+VCC 10.2V
+VM 12V
A.GND
D.GND
-VCC -9.5V
-Vp -34V
-34V -VP (F.L) ⑨
-34V -VP (F.R) ⑭
-30.9 -VFL
FIL (1) AMP
FIL (2) AMP
AC (1) CD
AC (GND) CD
AC (2) CD
O-POWER
+5V
AC (1) TU
AC (2) TU
A-6
B-10
A-8
A-5
B-11
A-11
B-8
A-10
A-7
A-9
B-12
B-13
B-14
A-4
B-7
A-2
A-3
B-3
B-2
B-4
B-1
A-1
B-5
B-6
TO A MAIN C.B 1/2

IC. BU4094B



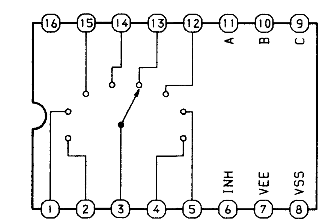
2
3
1
15
8-STAGE SHIFT REGISTER
8-STAGE SHIFT REGISTER
3-STATE OUTPUTS
10 Q'S
9 QS
SERIAL OUTPUT
Q1
Q8
PARALLEL OUTPUT
Q1:O.DOLBY ON
Q2:O.DOLBY C
Q3:O.EXT.REC
Q4:O.INT.REC
Q5:O.PLAY
Q6:O.PB2
Q7:O.LED
Q8:O.RMT

IC. BU4094B TRUTH TABLE

CLOCK	OUTPUT OUTPUT	STROBE	DATA	PARALLEL OUTPUTS		SERIAL OUTPUTS	
				Q1	Q2	QS	QS
↑	L	X	X	Z	Z	Q7	NO CHG
↓	L	X	X	Z	Z	NO CHG.	QS
↑	H	L	X	NO CHG.	NO CHG.	Q7	NO CHG.
↓	H	H	L	L	Qn-1	Q7	NO CHG.
↑	H	H	H	H	Qn-1	Q7	NO CHG.
↓	H	X	X	NO CHG.	NO CHG.	NO CHG.	QS

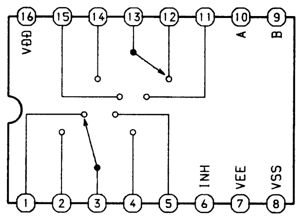
Z=HIGH IMPEDANCE
X=DON'T CARE

IC. BU4051B



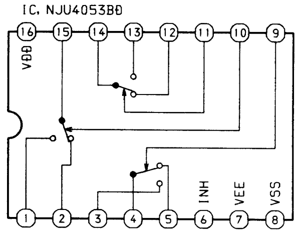
16 15 14 13 12 11 10 9
A B C
INH VEE VSS
1 2 3 4 5 6 7 8

IC. BU4052B



16 15 14 13 12 11 10 9
VDD
A B
INH VEE VSS
1 2 3 4 5 6 7 8

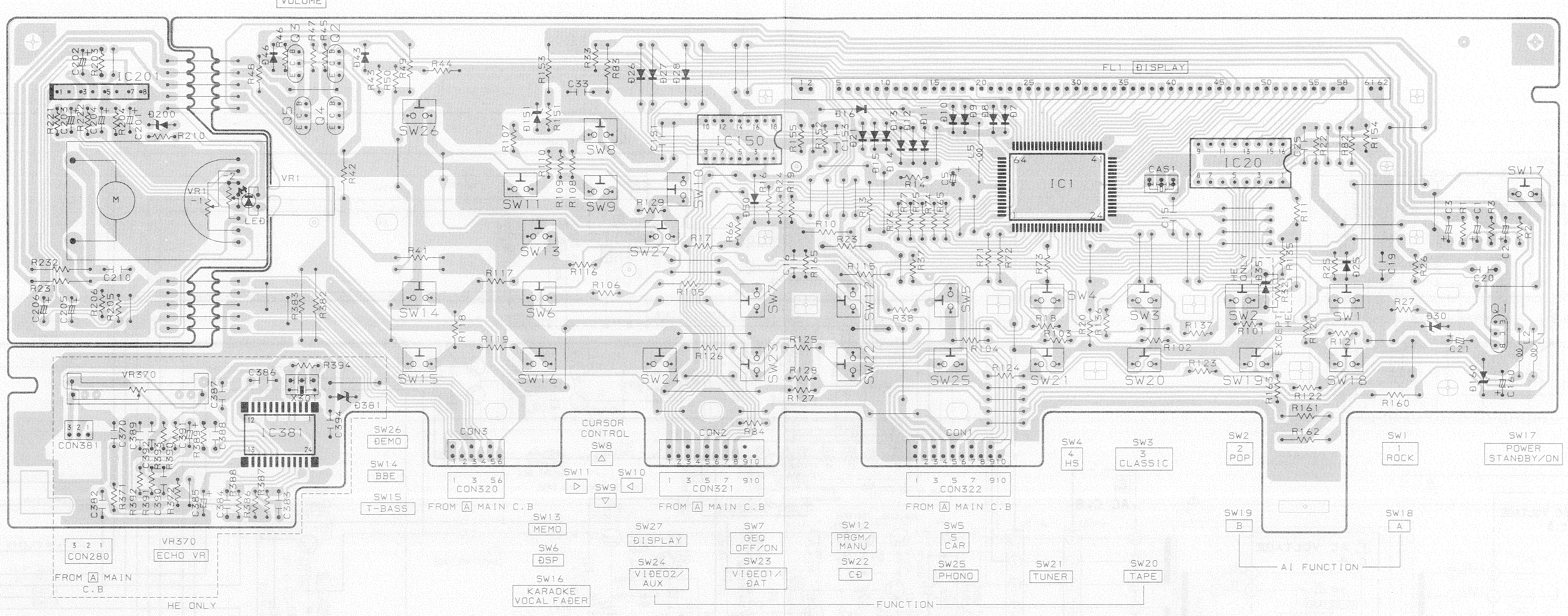
IC. NJU4053BD



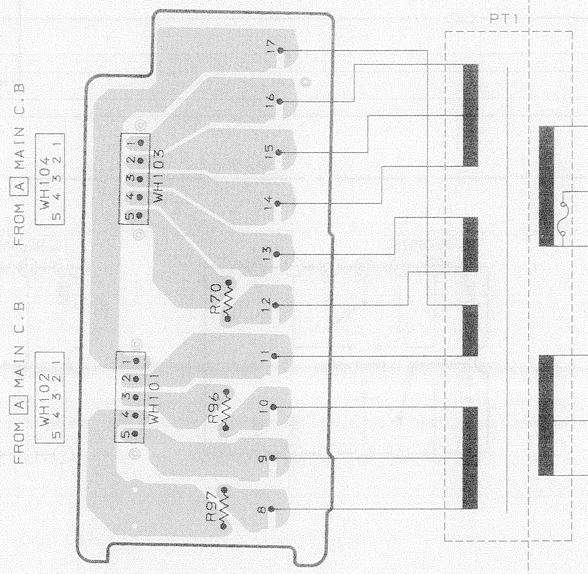
16 15 14 13 12 11 10 9
VDD
INH VEE VSS
1 2 3 4 5 6 7 8

D VOLUME C.B

C FRONT C.B

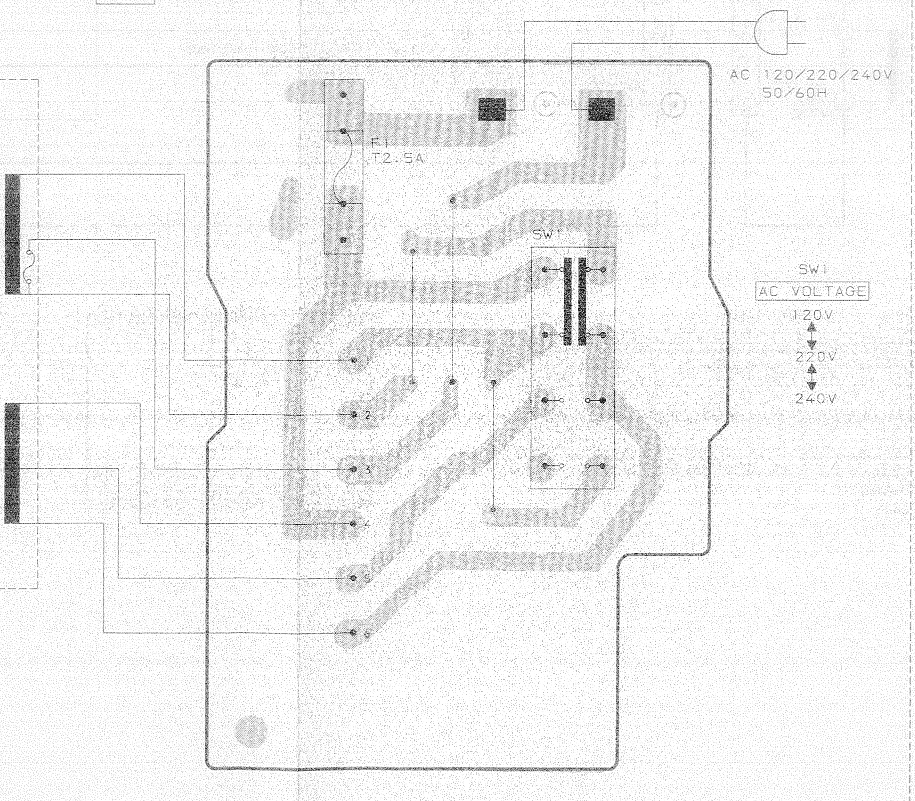

VR1
VOLUME
IC201
IC381
IC150
IC1
IC20
FL1 DISPLAY
CAS1
VR370
CON381
CON3
CON2
CON1
SW26 DEMO
SW14 BBE
SW15 T-BASS
CON320
FROM A MAIN C.B
CURSOR CONTROL
SW8 △
SW11 ▷
SW9 ▽
SW10 ◁
SW13 MEMO
SW6 DSP
SW16 KARAOKE VOCAL FADER
CON321
FROM A MAIN C.B
SW27 DISPLAY
SW24 VIDEO2/AUX
SW7 GEQ OFF/ON
SW23 VIDEO1/DAT
SW12 PRGM/MANU
SW22 CD
SW5 5 CAR
SW25 PHONO
CON322
FROM A MAIN C.B
SW4 4 HS
SW3 3 CLASSIC
SW21 TUNER
SW20 TAPE
FUNCTION
SW2 2 POP
SW1 1 ROCK
SW17 POWER STANDBY/ON
SW19 B
SW18 A
AI FUNCTION
CON280
FROM A MAIN C.B
VR370 ECHO VR
HE ONLY

E AC C.B


PT1
FROM A MAIN C.B
WH104
WH103
FROM A MAIN C.B
WH102
WH101
R70
R96
R97

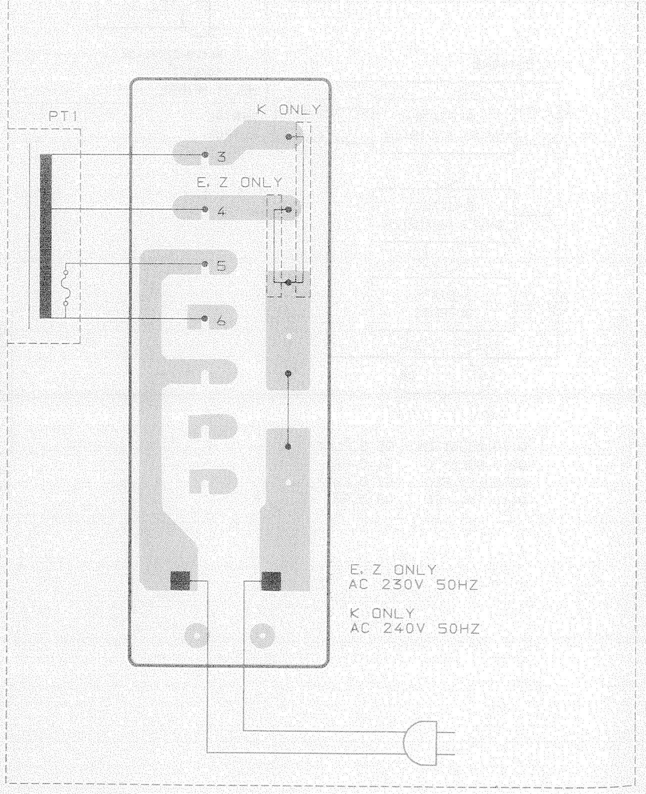
HE, H MODEL

F AC VOLTAGE C.B


AC 120/220/240V 50/60H
F1 T2.5A
SW1
SW1 AC VOLTAGE
120V
220V
240V

E, K, Z MODEL

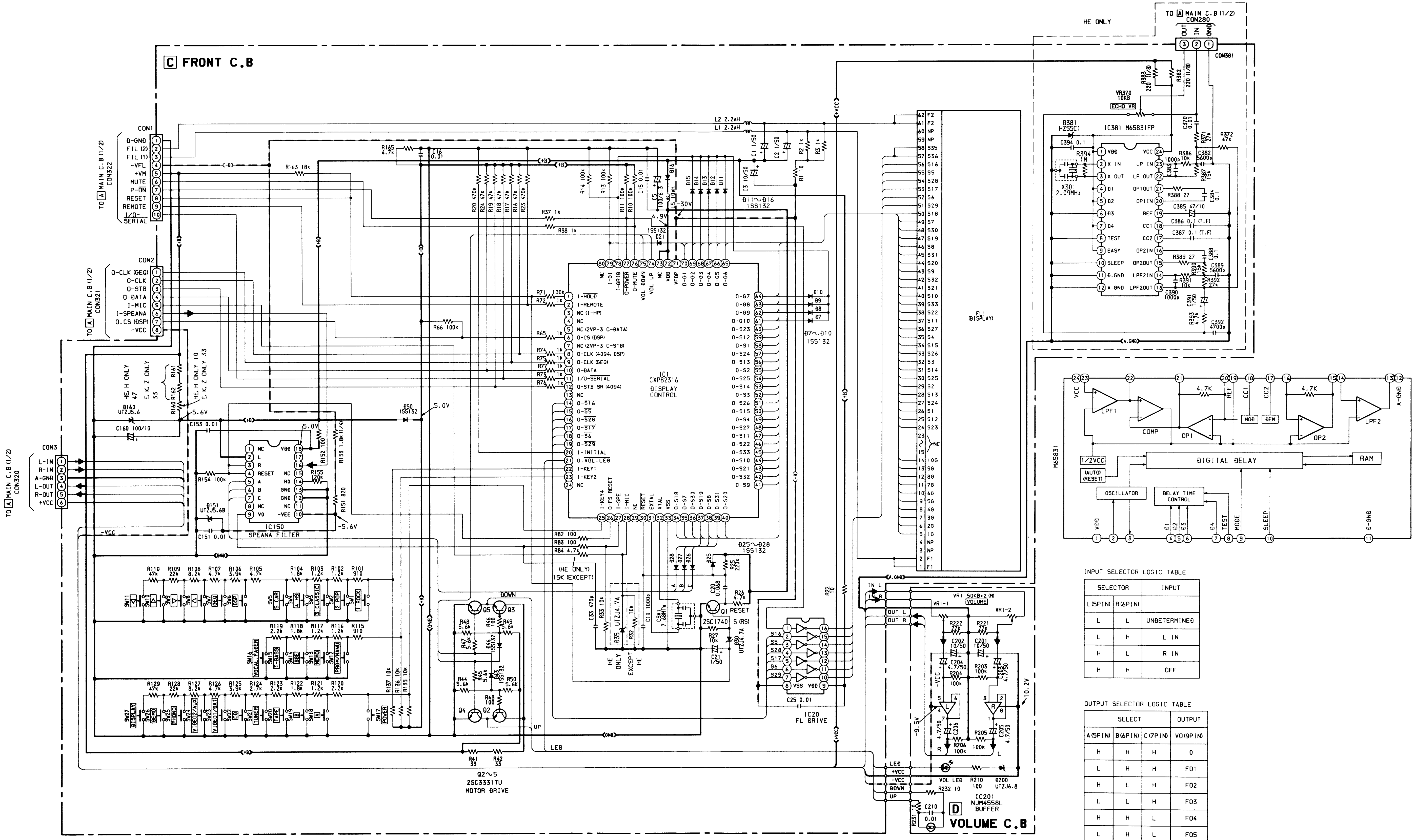
F AC VOLTAGE C.B


PT1
K ONLY
E, Z ONLY
E, Z ONLY AC 230V 50HZ
K ONLY AC 240V 50HZ

GRAPHIC SYMBOLS PRINTED CIRCUIT BOARD OF ELECT. CAP. ARE DESIGNED AS NEGATIVE POLE.

（プリント基板内のケミコンの極性表示は⊖表示です。）

SCHEMATIC DIAGRAM – 3 (MX – Z5000M)


C FRONT C.B
D VOLUME C.B
TO A MAIN C.B (1/2) CON322
TO A MAIN C.B (1/2) CON321
TO A MAIN C.B (1/2) CON320
TO A MAIN C.B (1/2) CON280
HE ONLY
CON1
CON2
CON3
CON381
IC1 CXP82316 DISPLAY CONTROL
IC150 SPEANA FILTER
IC20 FL DRIVE
IC381 M65831FP
IC201 NJM4558L BUFFER
FL1 (DISPLAY)
Q2~5 2SC3331TU MOTOR DRIVE
Q1 RESET 2SC1740 S(RS)
X301 2.09MHz
VR370 10KB ECHO VR
VR1 50KB×2 (M) VOLUME
D11~D16 1SS132
D7~D10 1SS132
D25~D28 1SS132
M65831
DIGITAL DELAY
RAM
OSCILLATOR
DELAY TIME CONTROL
1/2VCC
(AUTO) RESET
LPF1
LPF2
COMP
OP1
OP2
MOD
DEM
(HE ONLY) 15K (EXCEPT)
HE ONLY
EXCEPT HE

INPUT SELECTOR LOGIC TABLE

SELECTOR		INPUT
L(5PIN)	R(6PIN)	
L	L	UNDETERMINED
L	H	L IN
H	L	R IN
H	H	OFF

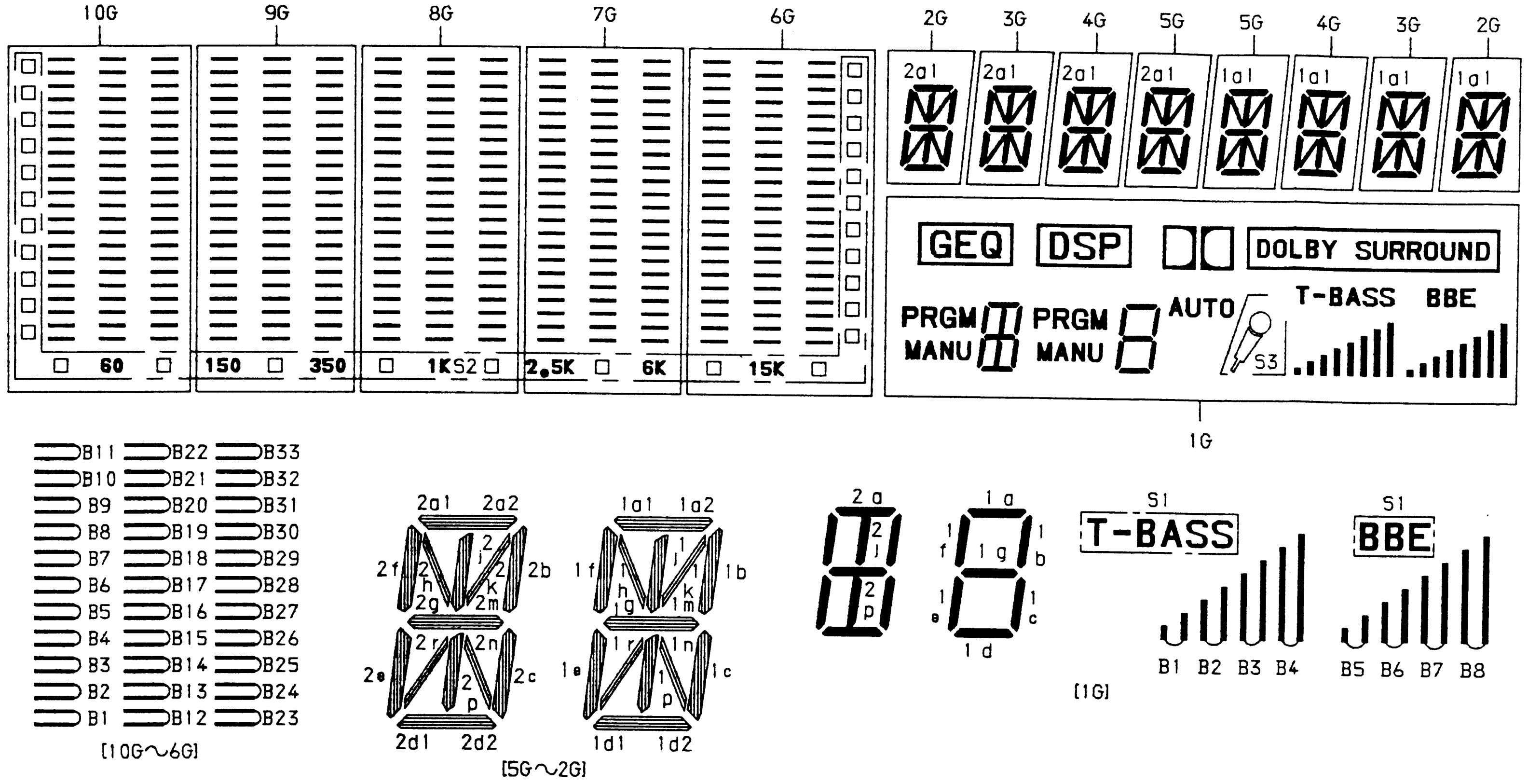
OUTPUT SELECTOR LOGIC TABLE

SELECT			OUTPUT
A(5PIN)	B(6PIN)	C(7PIN)	VO(9PIN)
H	H	H	0
L	H	H	F01
H	L	H	F02
L	L	H	F03
H	H	L	F04
L	H	L	F05
H	L	L	F06
L	L	L	F07

FL/IC BLOCK DIAGRAM (MX – Z5000M)

FL, BJ124GK

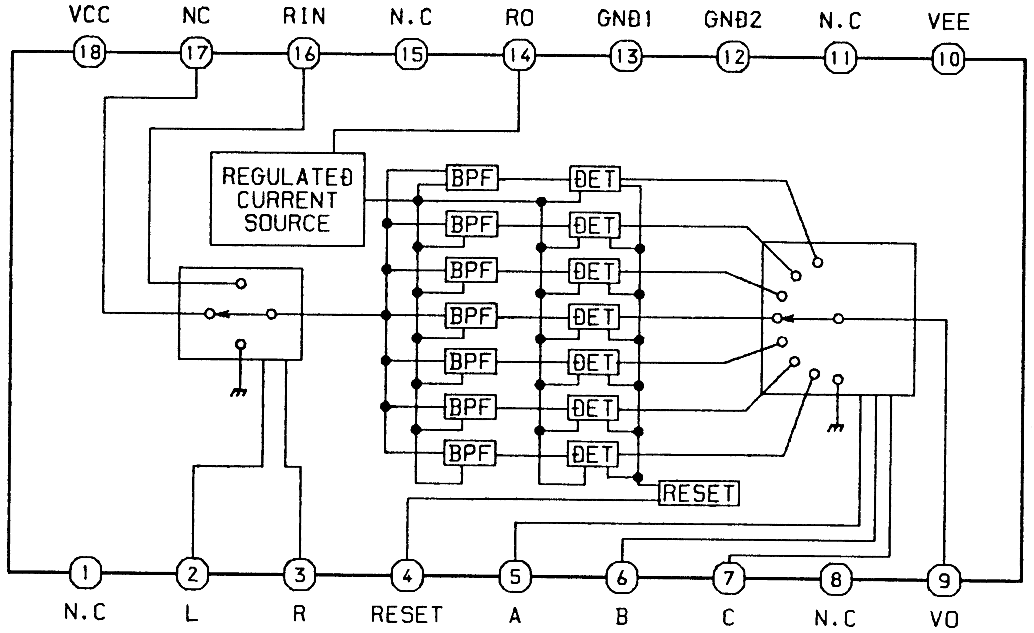
GRID ASSIGNMENT


10G
9G
8G
7G
6G
2G
3G
4G
5G
5G
4G
3G
2G
2a1
1a1
60
150
350
1K
S2
2.5K
6K
15K
GEQ
DSP
DOLBY SURROUND
PRGM
MANU
PRGM
MANU
AUTO
T-BASS
BBE
S3
1G
B11 B22 B33
B10 B21 B32
B9 B20 B31
B8 B19 B30
B7 B18 B29
B6 B17 B28
B5 B16 B27
B4 B15 B26
B3 B14 B25
B2 B13 B24
B1 B12 B23
[10G~6G]
2a1 2a2
1a1 1a2
2f 2h 2j 2k 2g 2m 2b
1f 1h 1j 1k 1g 1m 1b
2e 2r 2n 2p 2c
1e 1r 1n 1p 1c
2d1 2d2
1d1 1d2
[5G~2G]
2a
2b
2c
2d
2e
2f
2g
2p
1a
1b
1c
1d
1e
1f
1g
1p
S1
T-BASS
BBE
B1 B2 B3 B4
B5 B6 B7 B8
[1G]

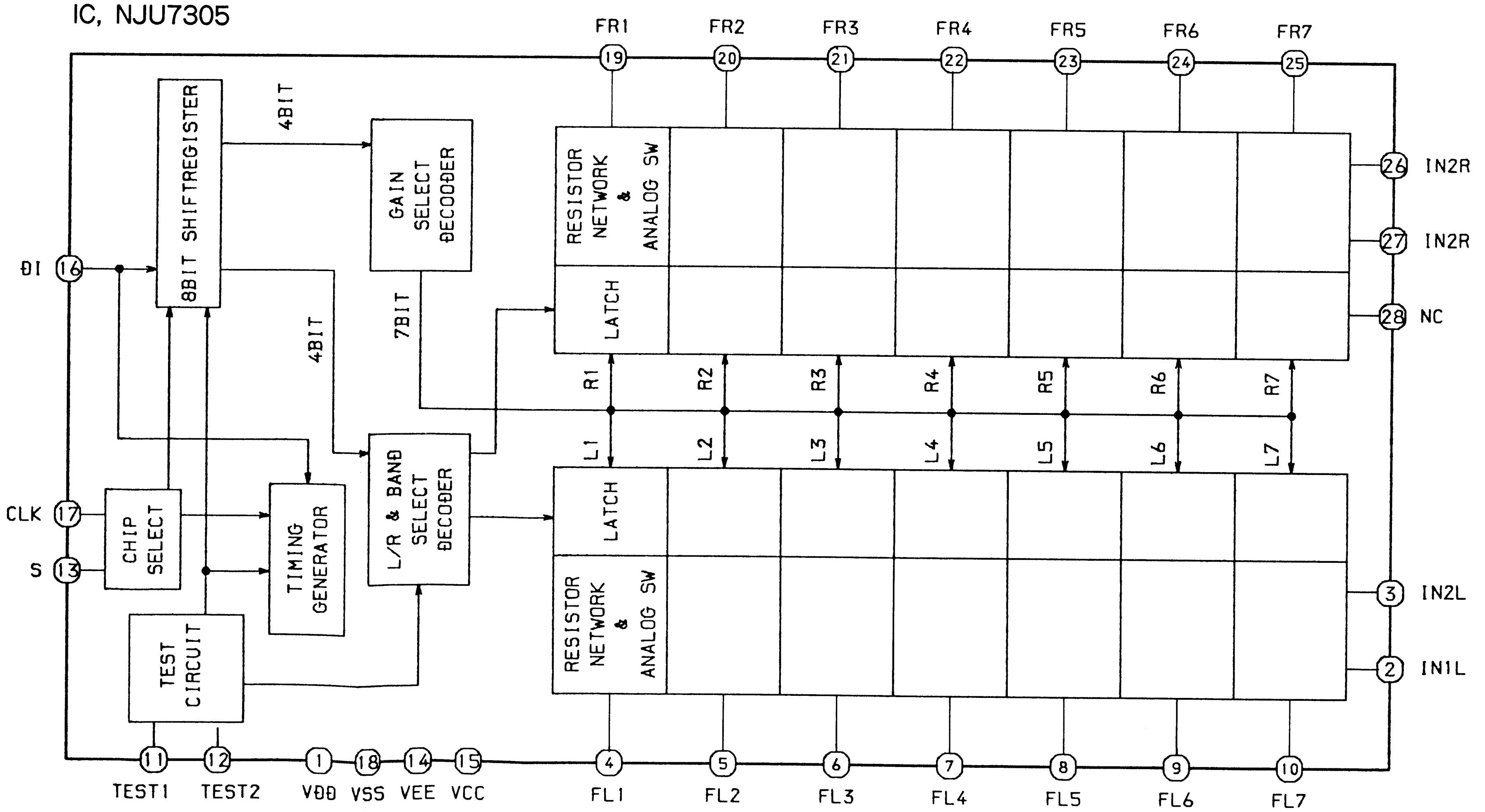
ANODE CONNECTION

	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	B1	B1	B1	B1	B1	1a2	1a2	1a2	1a2	B6
P2	B2	B2	B2	B2	B2	1k	1k	1k	1k	B3
P3	B3	B3	B3	B3	B3	1g	1g	1g	1g	**SURROUND**
P4	B4	B4	B4	B4	B4	1e	1e	1e	1e	**AUTO**
P5	B5	B5	B5	B5	B5	1p	1p	1p	1p	1a, 1d
P6	B6	B6	B6	B6	B6	2d2	2d2	2d2	2d2	[GEQ]
P7	B7	B7	B7	B7	B7	2n	2n	2n	2n	2b
P8	B8	B8	B8	B8	B8	2c	2c	2c	2c	[DSP]
P9	B9	B9	B9	B9	B9	2f	2f	2f	2f	2d
P10	B10	B10	B10	B10	B10	2h	2h	2h	2h	**PRGM** [GEQ]
P11	B11	B11	B11	B11	B11	2a1	2a1	2a1	2a1	1f
P12	B12	B12	B12	B12	B12	1a1	1a1	1a1	1a1	B7
P13	B13	B13	B13	B13	B13	1h	1h	1h	1h	B4
P14	B14	B14	B14	B14	B14	1f	1f	1f	1f	B1
P15	B15	B15	B15	B15	B15	1c	1c	1c	1c	**DOLBY**
P16	B16	B16	B16	B16	B16	1n	1n	1n	1n	1b
P17	B17	B17	B17	B17	B17	1d2	1d2	1d2	1d2	1e
P18	B18	B18	B18	B18	B18	2p	2p	2p	2p	2c
P19	B19	B19	B19	B19	B19	2e	2e	2e	2e	**PRGM** [DSP]
P20	B20	B20	B20	B20	B20	2g	2g	2g	2g	2g
P21	B21	B21	B21	B21	B21	2k	2k	2k	2k	2f
P22	B22	B22	B22	B22	B22	2a2	2a2	2a2	2a2	–
P23	B23	B23	B23	B23	B23	–	–	–	–	B8
P24	B24	B24	B24	B24	B24	1j	1j	1j	1j	B5
P25	B25	B25	B25	B25	B25	1b	1b	1b	1b	B2
P26	B26	B26	B26	B26	B26	1m	1m	1m	1m	S3
P27	B27	B27	B27	B27	B27	1r	1r	1r	1r	1c
P28	B28	B28	B28	B28	B28	1d1	1d1	1d1	1d1	1g
P29	B29	B29	B29	B29	B29	2d1	2d1	2d1	2d1	2a
P30	B30	B30	B30	B30	B30	2r	2r	2r	2r	**MANU** [DSP]
P31	B31	B31	B31	B31	B31	2m	2m	2m	2m	2j, 2p
P32	B32	B32	B32	B32	B32	2b	2b	2b	2b	2e
P33	B33	B33	B33	B33	B33	2j	2j	2j	2j	**MANU** [GEQ]
P34	S2	S2	S2	S2	S2	–	–	–	–	–
P35	–	–	–	–	–	–	–	–	–	**GEQ DSP** S1

IC, BA3826S

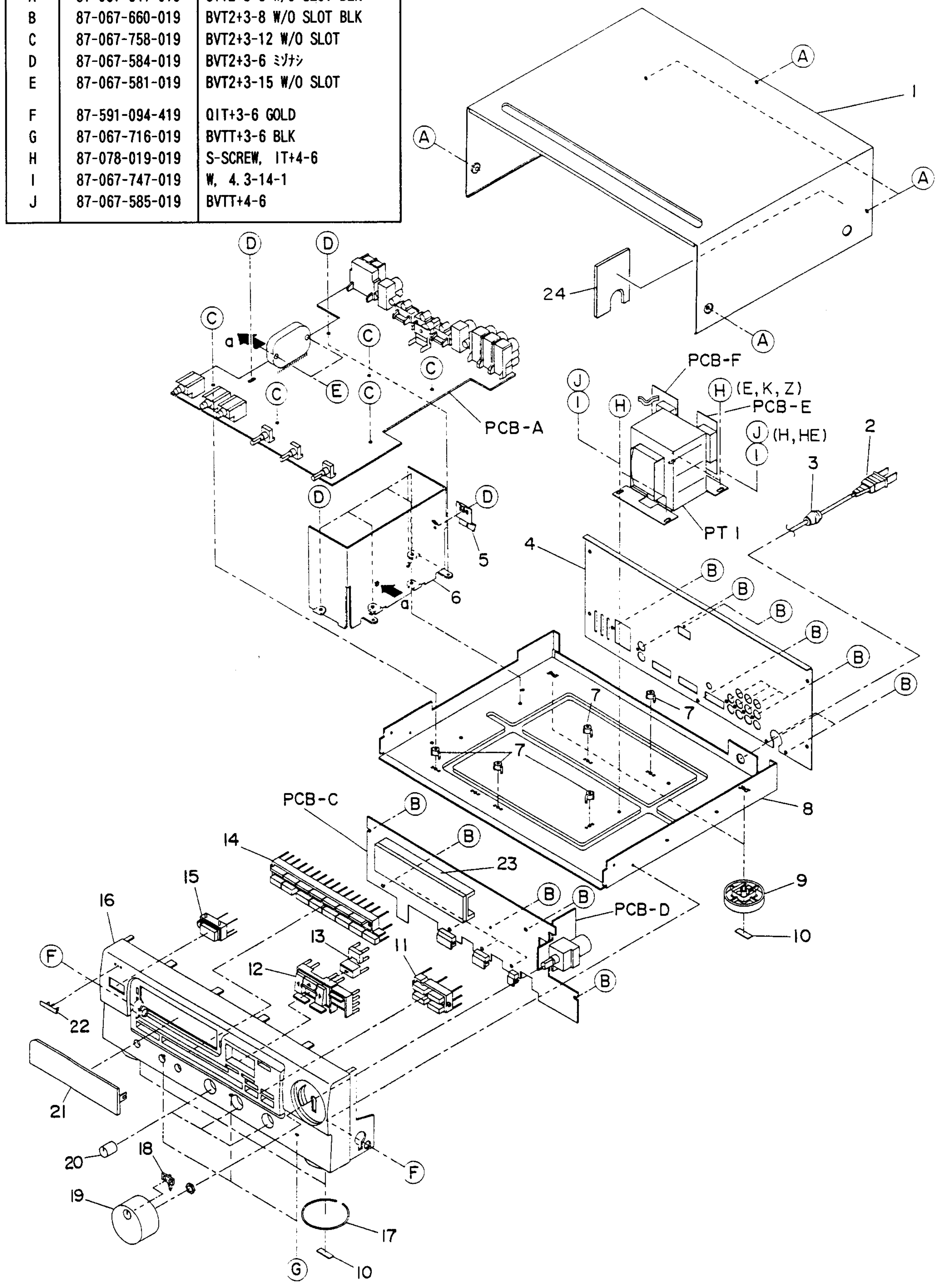

VCC 18
NC 17
RIN 16
N.C 15
RO 14
GND1 13
GND2 12
N.C 11
VEE 10
REGULATED CURRENT SOURCE
BPF
DET
RESET
1 N.C
2 L
3 R
4 RESET
5 A
6 B
7 C
8 N.C
9 VO

IC, NJU7305


FR1 19
FR2 20
FR3 21
FR4 22
FR5 23
FR6 24
FR7 25
DI 16
CLK 17
S 13
8BIT SHIFTREGISTER
4BIT
GAIN SELECT DECODER
7BIT
4BIT
RESISTOR NETWORK & ANALOG SW
LATCH
R1 R2 R3 R4 R5 R6 R7
L1 L2 L3 L4 L5 L6 L7
CHIP SELECT
TIMING GENERATOR
L/R & BAND SELECT DECODER
LATCH
RESISTOR NETWORK & ANALOG SW
TEST CIRCUIT
26 IN2R
27 IN2R
28 NC
3 IN2L
2 IN1L
11 TEST1
12 TEST2
1 VDD
18 VSS
14 VEE
15 VCC
4 FL1
5 FL2
6 FL3
7 FL4
8 FL5
9 FL6
10 FL7

EXPLODED VIEW (MX – Z5000M)

REF.	PART NO.	DESCRIPTION
A	87-067-641-019	UTT2+3-8 W/O SLOT BLK
B	87-067-660-019	BVT2+3-8 W/O SLOT BLK
C	87-067-758-019	BVT2+3-12 W/O SLOT
D	87-067-584-019	BVT2+3-6 ﾐｿﾞﾅｼ
E	87-067-581-019	BVT2+3-15 W/O SLOT
F	87-591-094-419	QIT+3-6 GOLD
G	87-067-716-019	BVTT+3-6 BLK
H	87-078-019-019	S-SCREW, IT+4-6
I	87-067-747-019	W, 4.3-14-1
J	87-067-585-019	BVTT+4-6



MECHANICAL PARTS LIST (MX – Z5000M)

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q,TY
	1	★82-VP2-011-019	CAB, STEEL (H, HE)	※	1
	1	★82-VP1-016-018	CAB, STEEL G (E, K, Z)		1
	2	★87-034-749-019	AC CORD, H W/PLUG (H)		1
	2	★87-050-034-019	AC CORD ASSY, E (HE)		1
	2	★87-050-016-018	AC CORD ASSY, E (E, Z)		1
	2	★87-050-029-018	AC CORD ASSY, K (K)		1
	3	★87-085-184-010	BUSHING, AC CORD D (H)		1
	3	★87-085-185-010	BUSHING, AC CORD E (HE, E, K, Z)		1
	4	★82-VP2-012-019	PANEL, REAR HJBN (H)	※	1
	4	★82-VP2-027-019	PANEL, REAR HEJBN (HE)	※	1
	4	★82-VP2-014-019	PANEL, REAR EBNE (E)	※	1
	4	★82-VP2-013-019	PANEL, REAR KBNE (K)	※	1
	4	★82-VP2-015-019	PANEL, REAR ZBNE (Z)	※	1
	5	---	HLDR, IC		1
	6	---	HT – SINK, 110		1
	7	---	HLDR, PCB 6.0		5
	8	---	CHAS, MAIN		1
	9	★81-VX1-012-019	FOOT, REAR		2
	10	★82-VW2-211-019	FELT, 20 – 7.5 – 2		4
	11	★82-VP2-006-019	KEY, BBE	※	1
	12	★82-VP2-004-019	KEY, CRSR	※	1
	13	★82-VP2-005-019	KEY, CRSR DOWN	※	1
	14	★82-VP2-003-119	KEY, FUN	※	1
	15	★82-VP2-002-019	KEY, POWER	※	1
	16	★82-VP2-017-019	CAB, FR LH (H)	※	1
	16	★82-VP2-001-019	CAB, FR H (HE)	※	1
	16	★82-VP2-022-019	CAB, FR EX (E, K, Z)	※	1
	17	★81-VW1-015-019	RING FOOT		2
	18	★82-MA2-026-019	IND, VOL		1
	19	★82-MA2-023-019	KNOB, VOL		1
	20	★81-VP1-005-019	KNOB, BBE		3
	21	★82-VP2-007-019	WINDOW, AMP	※	1
	22	★81-DS1-011-019	BADGE, AIWA N		1
	23	★82-VP2-203-019	GUIDE, FL	※	1
	24	★82-VP2-206-019	SH, CAB STEEL (HE)	※	1

MODEL NO.

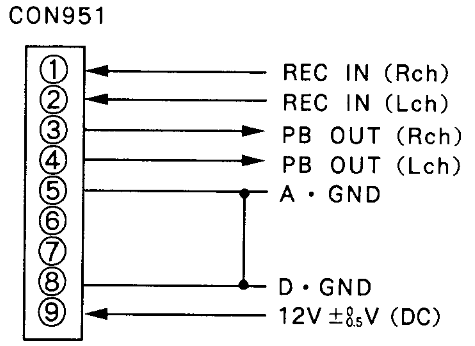
FX-WZ5000, FX-WZ7000

CAUTIONS WHEN SERVICING (FX−WZ5000, FX−WZ7000)

Model FX−WZ5000, FX−WZ7000 does not have a power supply circuit. Power is supplied to it through a 9−pin flat cable and the signal inputs/outputs are also perfomed through this cable.
When servicing the FX−WZ5000, FX−WZ7000 connect it to the MX−Z5000M so power is supplied to the FX−WZ5000, FX−WZ7000.
If the MX−Z5000M is not available, follow the procedure below.

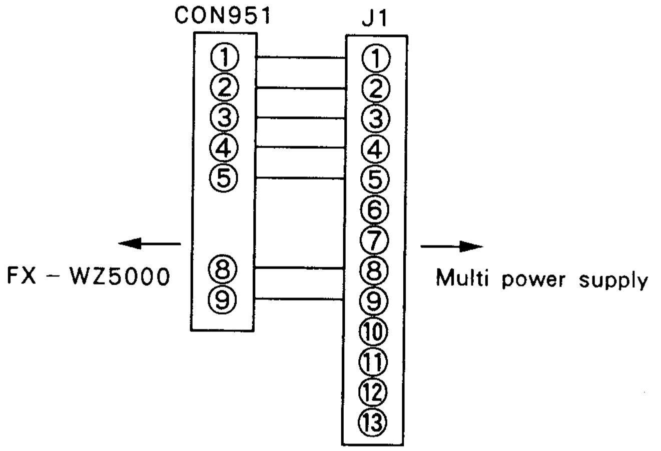
[When servicing the unassembled FX−WZ5000, FX−WZ7000]

①Supply the following voltages to each terminal from an external power supply.



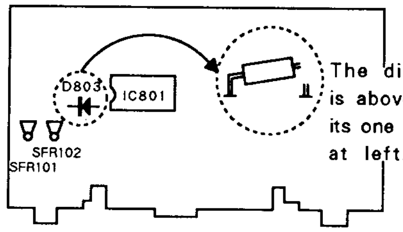
②Connection diagram when using multi power supply. (LPS−9088)

- Connect a multi−conversion harness for the D5 type to J1.



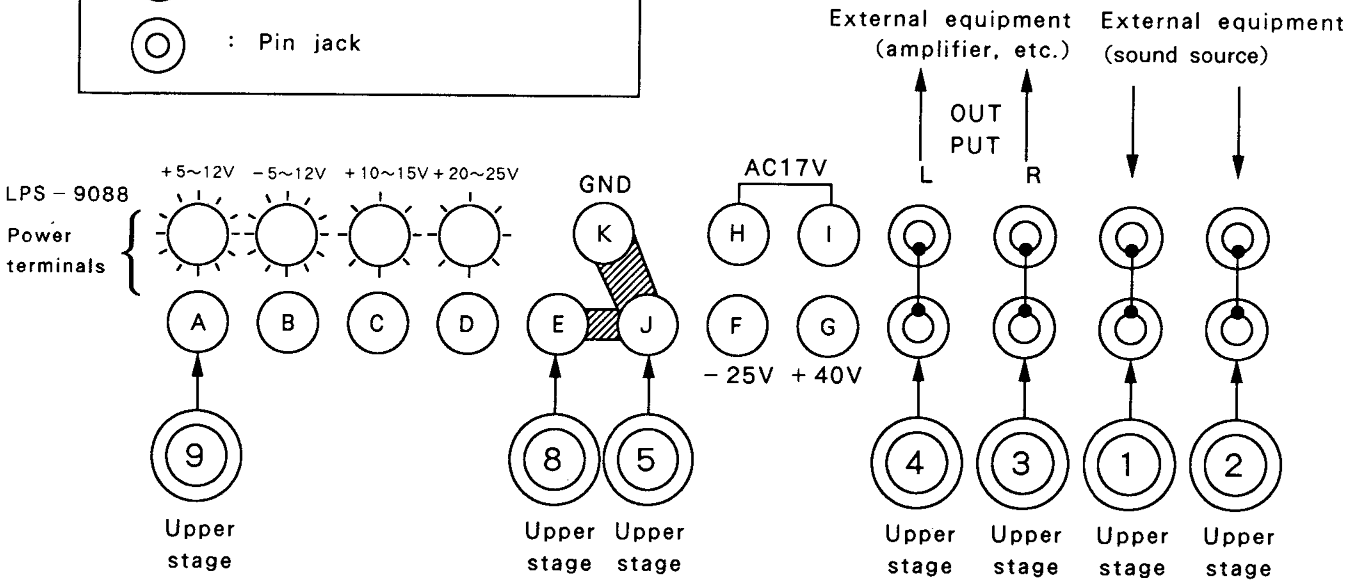
Connect a multi−conversion harness

- After connecting the multi−conversion harness, connect the leg of the diode D803 on the pattern of the main C.B and then turn the multi−power supply on.



The diode D803 itself is above the pattern with its one leg is cut as shown at left.

▨ : Short bar
↔ : Jumper cable
●→ : Ground cable of pin plug
○ : Power output terminal
◎ : Relay terminal
⊙ : Pin jack



ELECTRICAL MAIN PARTS LIST (FX−WZ5000)

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
IC			
	87-002-444-010		IC, BU4094B
	87-001-874-010		IC, HA12134A
	87-001-334-010		IC, LB9051A
	82-VW2-631-010		IC, LC66406-4B19
	87-017-022-080		IC, NJM2068M-D (T1)
	87-001-607-080		IC, NJM4558M
	87-017-023-080		IC, NJU4052BM
	87-001-224-080		IC, NJU4066BM
	87-020-730-080		IC, TC4069UBF
TRANSISTOR			
	89-503-685-089		C-FET, 2SK368GR
	87-026-223-089		C-TR, DTC143TK
	89-113-625-080		C-TR, 2SA1362GR
	89-327-125-080		C-TR, 2SC2712GR
	89-333-266-080		C-TR, 2SC3326B
	87-026-227-080		C-TR, DTA114EK
	87-026-580-080		C-TR, DTA123JK
	87-026-210-080		C-TR, DTC144EK
	89-112-965-080		TR, 2SA1296GR
	87-026-463-080		TR, 2SA933S (RS)
	89-109-521-080		TR, 2SA952K
	89-318-155-080		TR, 2SC1815GR
	89-320-011-080		TR, 2SC2001K
	87-026-214-080		TR, DTA114YS
	87-026-218-080		TR, DTC144ES
DIODE			
	87-017-024-080		C-DIODE, DA204K
	87-020-331-080		C-DIODE, DAN202K
	87-020-330-080		C-DIODE, DAP202K
	87-001-559-050		DIODE, 1SS131 RA
	87-002-564-080		DIODE, 1SS133 RA
	87-020-123-080		DIODE, DS446
	87-020-109-019		LED, SLF-201C〈YJ〉
	87-001-290-050		ZENER, HZS6B1L RA
	87-001-731-050		ZENER, HZS6C2L RA
	87-020-584-080		ZENER, 02CZ5. 6Y
MAIN C. B			
C101	87-012-158-080		C-CAP, S 390P-50 CH
C102	87-012-158-080		C-CAP, S 390P-50 CH
C103	87-010-318-080		C-CAP, S 47P-50 CH
C104	87-010-318-080		C-CAP, S 47P-50 CH
C105	87-010-426-080		C-CAP, S 0. 012-25 B
C106	87-010-426-080		C-CAP, S 0. 012-25 B
C109	87-012-154-080		C-CAP, S 150P-50 CH
C110	87-012-154-080		C-CAP, S 150P-50 CH
C111	87-010-404-080		CAP, E 4. 7-50 SME
C112	87-010-404-080		CAP, E 4. 7-50 SME
C113	87-010-404-080		CAP, E 4. 7-50 SME
C114	87-010-404-080		CAP, E 4. 7-50 SME
C115	87-010-101-080		CAP, E 220-16 SME
C116	87-010-197-080		C-CAP, S 0. 01-25 B
C117	87-010-197-080		C-CAP, S 0. 01-25 B
C201	87-012-157-080		C-CAP, S 330P-50 CH
C202	87-012-157-080		C-CAP, S 330P-50 CH
C203	87-010-318-080		C-CAP, S 47P-50 CH
C204	87-010-318-080		C-CAP, S 47P-50 CH
C205	87-010-426-080		C-CAP, S 0. 012-25 B
C206	87-010-426-080		C-CAP, S 0. 012-25 B
C207	87-012-156-080		C-CAP, S 220P-50 CH
C208	87-012-156-080		C-CAP, S 220P-50 CH
C211	87-010-404-080		CAP, E 4. 7-50 SME
C212	87-010-404-080		CAP, E 4. 7-50 SME
C213	87-010-101-080		CAP, E 220-16 SME
C214	87-010-197-080		C-CAP, S 0. 01-25 B
C215	87-010-197-080		C-CAP, S 0. 01-25 B
C251	87-010-186-080		C-CAP, S 4700P-50 B
C252	87-010-149-080		C-CAP, S 5P-50 CH
C253	87-010-182-080		C-CAP, S 2200P-50 B
C254	87-010-596-080		C-CAP, S 0. 047-16 RK
C255	87-012-154-080		C-CAP, S 150P-50 CH
C256	87-010-374-080		CAP, E 47-10
C257	87-010-401-080		CAP, E 1-50 SME
C258	87-010-149-080		C-CAP, S 5P-50 CH
C259	87-010-178-080		C-CAP, S 1000P-50 B
C301	87-010-322-080		C-CAP, S 100P-50 CH
C302	87-010-322-080		C-CAP, S 100P-50 CH
C303	87-010-183-080		C-CAP, S 2700P-50 B
C304	87-010-183-080		C-CAP, S 2700P-50 B
C305	87-010-404-080		CAP, E 4. 7-50 SME
C306	87-010-404-080		CAP, E 4. 7-50 SME
C323	87-012-157-080		C-CAP, S 330P-50 CH
C324	87-012-157-080		C-CAP, S 330P-50 CH
C401	87-012-156-080		C-CAP, S 220P-50 CH
C402	87-012-156-080		C-CAP, S 220P-50 CH
C403	87-014-071-080		CAP, PP 3900P-100 J
C405	87-010-221-080		CAP, E 470-10
C409	87-010-402-080		CAP, E 2. 2-50 SME
C451	87-010-178-080		C-CAP, S 1000P-50 B
C453	87-010-322-080		C-CAP, S 100P-50 CH
C454	87-010-322-080		C-CAP, S 100P-50 CH
C501	87-012-140-080		C-CAP, S 470P-50 CH
C502	87-012-140-080		C-CAP, S 470P-50 CH
C503	87-010-182-080		C-CAP, S 2200P-50 B
C504	87-010-182-080		C-CAP, S 2200P-50 B
C505	87-010-404-080		CAP, E 4. 7-50 SME
C506	87-010-404-080		CAP, E 4. 7-50 SME
C511	87-010-545-080		CAP, E 0. 22-50 SME
C512	87-010-545-080		CAP, E 0. 22-50 SME
C517	87-010-371-080		CAP, E 470-6. 3
C518	87-010-401-080		CAP, E 1-50 SME
C519	87-010-404-080		CAP, E 4. 7-50 SME
C520	87-010-404-080		CAP, E 4. 7-50 SME
C601	87-010-404-080		CAP, E 4. 7-50 SME
C602	87-010-381-080		CAP, E 330-16 SME
C603	87-010-101-080		CAP, E 220-16 SME
C604	87-010-237-080		CAP, E 1000-16
C605	87-010-198-080		C-CAP, S 0. 022-25 B
C606	87-010-546-080		CAP, E 0. 33-50 SME
C607	87-010-371-080		CAP, E 470-6. 3
C608	87-010-198-080		C-CAP, S 0. 022-25 B
C609	87-015-822-080		C-CAP, 0. 022
C801	87-010-404-080		CAP, E 4. 7-50 SME
C951	87-012-140-080		C-CAP, S 470P-50 CH
C952	87-010-186-080		C-CAP, S 4700P-50 B
CF801	89-MX1-704-080		CERA LOCK (MU) 3. 9MHZ
L301	87-005-525-080		COIL, 22MH-J
L302	87-005-525-080		COIL, 22MH-J
L303	87-003-131-080		COIL, 10MH J
L304	87-003-131-080		COIL, 10MH J
L305	87-003-123-080		COIL, 2. 2MH J
L306	87-003-123-080		COIL, 2. 2MH J
L401	80-VW1-605-010		COIL, OSC BIAS 108K
L601	87-005-474-080		COIL, 12UH J FLR50
R408	87-025-471-080		RES, NF 4. 7-1/4W J
SFR101	87-024-349-080		SFR, 1K DIA6 H
SFR102	87-024-349-080		SFR, 1K DIA6 H
SFR201	87-024-349-080		SFR, 1K DIA6 H
SFR202	87-024-349-080		SFR, 1K DIA6 H
SFR301	87-024-353-080		SFR, 10K DIA6 H
SFR302	87-024-353-080		SFR, 10K DIA6 H
SFR401	87-024-356-080		SFR, 47K DIA6 H
SFR402	87-024-356-080		SFR, 47K DIA6 H

FRONT-1 C.B

REF. NO	PART NO.	ｶﾝﾘ NO.	DESCRIPTION
S905	87-036-215-080		SW, TACT EVQ-21404M (STOP)
S906	87-036-215-080		SW, TACT EVQ-21404M (F. FWD)
S907	87-036-215-080		SW, TACT EVQ-21404M (PLAY)
S908	87-036-215-080		SW, TACT EVQ-21404M (REW)

FRONT-2 C.B

REF. NO	PART NO.	ｶﾝﾘ NO.	DESCRIPTION
C901	87-010-405-080		CAP, E 10-50 SME
C902	87-018-134-080		CAP, TC-U 0.01-16 Y
D901	81-DS2-639-080		LED, SEL-1321G TP7 (DECK 1)
D902	81-DS2-639-080		LED, SEL-1321G TP7 (DECK 1)
D903	81-DS2-639-080		LED, SEL-1321G TP7 (DECK 2)
D904	81-DS2-639-080		LED, SEL-1321G TP7 (DECK 2)
D905	81-DS2-639-080		LED, SEL-1321G TP7 (DOLBY NR)
D907	81-DS2-639-080		LED, SEL-1321G TP7 (DECK 2)
D908	81-DS2-639-080		LED, SEL-1321G TP7 (REVERSE)
D909	81-DS2-639-080		LED, SEL-1321G TP7 (MODE)
D910	87-017-295-080		LED, SEL-1921D TP7 (PAUSE)
D911	81-DS2-637-080		LED, SEL-1121R TP7 (REC/MUTE)
D912	81-DS2-637-080		LED, SEL-1121R TP7 (CD S REC)
D913	81-DS2-637-080		LED, SEL-1121R TP7 (SYNC DUB)
S901	87-036-215-080		SW, TACT EVQ-21404M (CD S RE)
S902	87-036-215-080		SW, TACT EVQ-21404M (NORMAL)
S903	87-036-215-080		SW, TACT EVQ-21404M (HIGH)
S904	87-036-215-080		SW, TACT EVQ-21404M (DOLBY)
S909	87-036-215-080		SW, TACT EVQ-21404M (REV MD)
S912	87-036-215-080		SW, TACT EVQ-21404M (REC/MUT)
S913	87-036-215-080		SW, TACT EVQ-21404M (REW/MS)
S914	87-036-215-080		SW, TACT EVQ-21404M (PB/DIR)
S915	87-036-215-080		SW, TACT EVQ-21404M (MS/FF)
S916	87-036-215-080		SW, TACT EVQ-21404M (STOP)
S917	87-036-215-080		SW, TACT EVQ-21404M (PAUSE)

DECK-1 C.B

REF. NO	PART NO.	ｶﾝﾘ NO.	DESCRIPTION
M1	87-045-348-010		MOT, SHW 2L 70
PIN701	87-009-236-010		CONN, 8P PH H
SFR1	87-024-170-080		SFR, 3.3K DIA 6V
SFR2	87-024-171-080		SFR, 4.7K DIA 6V
SOL1	82-ZM1-618-010		SOL ASSY, 27
SW4	87-036-110-010		SW, PUSH SPPB 62 (CR02)
SW5	87-036-110-010		SW, PUSH SPPB 62 (CST)
SW6	87-036-110-010		SW, PUSH SPPB 62 (STOP)

DECK-2 C.B

REF. NO	PART NO.	ｶﾝﾘ NO.	DESCRIPTION
M2	87-045-348-010		MOT, SHW 2L 70
PIN702	87-009-752-010		CONN, 11P PH H WHT
SFR1	87-024-170-080		SFR, 3.3K DIA 6V
SFR2	87-024-171-080		SFR, 4.7K DIA 6V
SOL2	82-ZM1-618-010		SOL ASSY, 27
SW1	87-036-110-010		SW, PUSH SPPB 62 (MT)
SW2	87-036-110-010		SW, PUSH SPPB 62 (REC B)
SW3	87-036-110-010		SW, PUSH SPPB 62 (REC A)
SW4	87-036-110-010		SW, PUSH SPPB 62 (CR02)
SW5	87-036-110-010		SW, PUSH SPPB 62 (CST)
SW6	87-036-110-010		SW, PUSH SPPB 62 (STOP)

RELAY-1 C.B

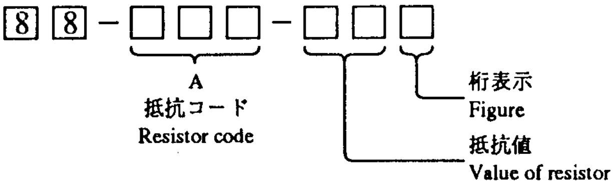
RELAY-2 C.B

MISCELLANEOUS

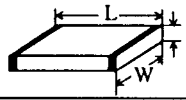
REF. NO	PART NO.	ｶﾝﾘ NO.	DESCRIPTION
PH	87-046-355-010		HEAD, PH HADKH2529B (D1)
RPH	87-046-356-010		HEAD, RPH HADKH5581B (D2)

○チップ抵抗部品コード／CHIP RESISTOR PART CODE

チップ抵抗部品コードの成り立ち
Chip resistor part coding

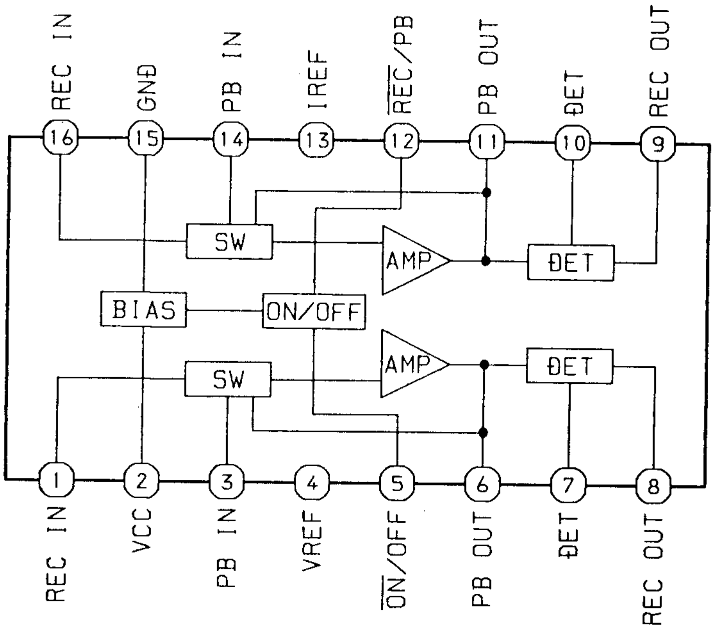


チップ抵抗
Chip resistor

Wattage 容量	Type 種類	Tolerance 許容誤差	Symbol 記号	Dimensions／寸法 (mm)				Resistor code : A 抵抗コード : A
				Form/外形	L	W	t	
1/32W	1608	±5%	CJ		1.6	0.8	0.35	108
1/10W	2125	±5%	CJ		2	1.25	1.45	118
1/8W	3216	±5%	CJ		3.2	1.6	0.5 ~0.7	128

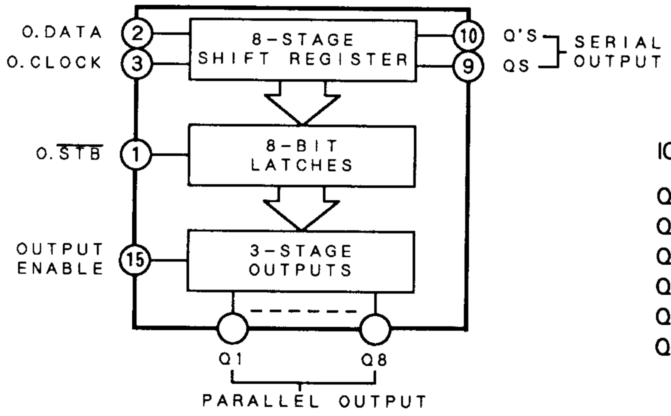
IC BLOCK DIAGRAM

IC, HA12134A



REC IN
GND
PB IN
IREF
$\overline{\text{REC}}$/PB
PB OUT
DET
REC OUT
16
15
14
13
12
11
10
9
SW
AMP
DET
BIAS
ON/OFF
SW
AMP
DET
1
2
3
4
5
6
7
8
REC IN
VCC
PB IN
VREF
$\overline{\text{ON}}$/OFF
PB OUT
DET
REC OUT

IC, BU4094B



O.DATA
O.CLOCK
O.$\overline{\text{STB}}$
OUTPUT ENABLE
2
3
1
15
8-STAGE SHIFT REGISTER
8-BIT LATCHES
3-STAGE OUTPUTS
10
9
Q'S
QS
SERIAL OUTPUT
Q1
Q8
PARALLEL OUTPUT

IC901

Q1 : O.$\overline{\text{LED}}$ $\overline{\text{DOLBY B}}$
Q2~Q4 : NC
Q5 : O.$\overline{\text{LED}}$ ▷1
Q6 : O.$\overline{\text{LED}}$ ◁1
Q7 : O.$\overline{\text{LED}}$ ▷2
Q8 : O.$\overline{\text{LED}}$ ◁2

IC902

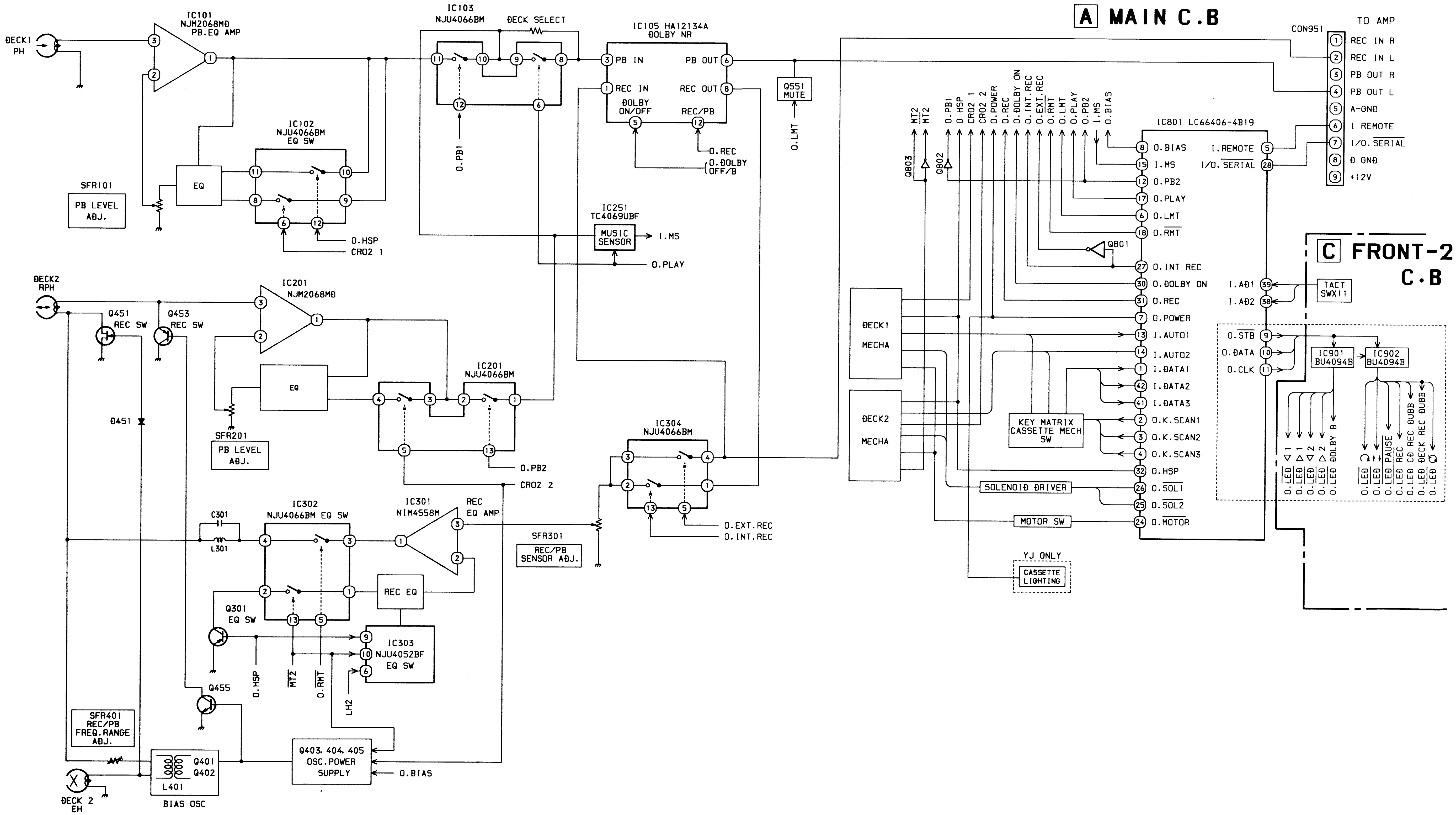
Q1 : O.$\overline{\text{LED}}$ REC
Q2 : O.$\overline{\text{LED}}$ CD
Q3 : O.$\overline{\text{LED}}$ DECK
Q4 : NC
Q5 : O.$\overline{\text{LED}}$ ⇄
Q6 : O.LED ⊂→
Q7 : O.LED ⟲
Q8 : O.$\overline{\text{LED}}$ $\overline{\text{PAUSE}}$

TRUTH TABLE

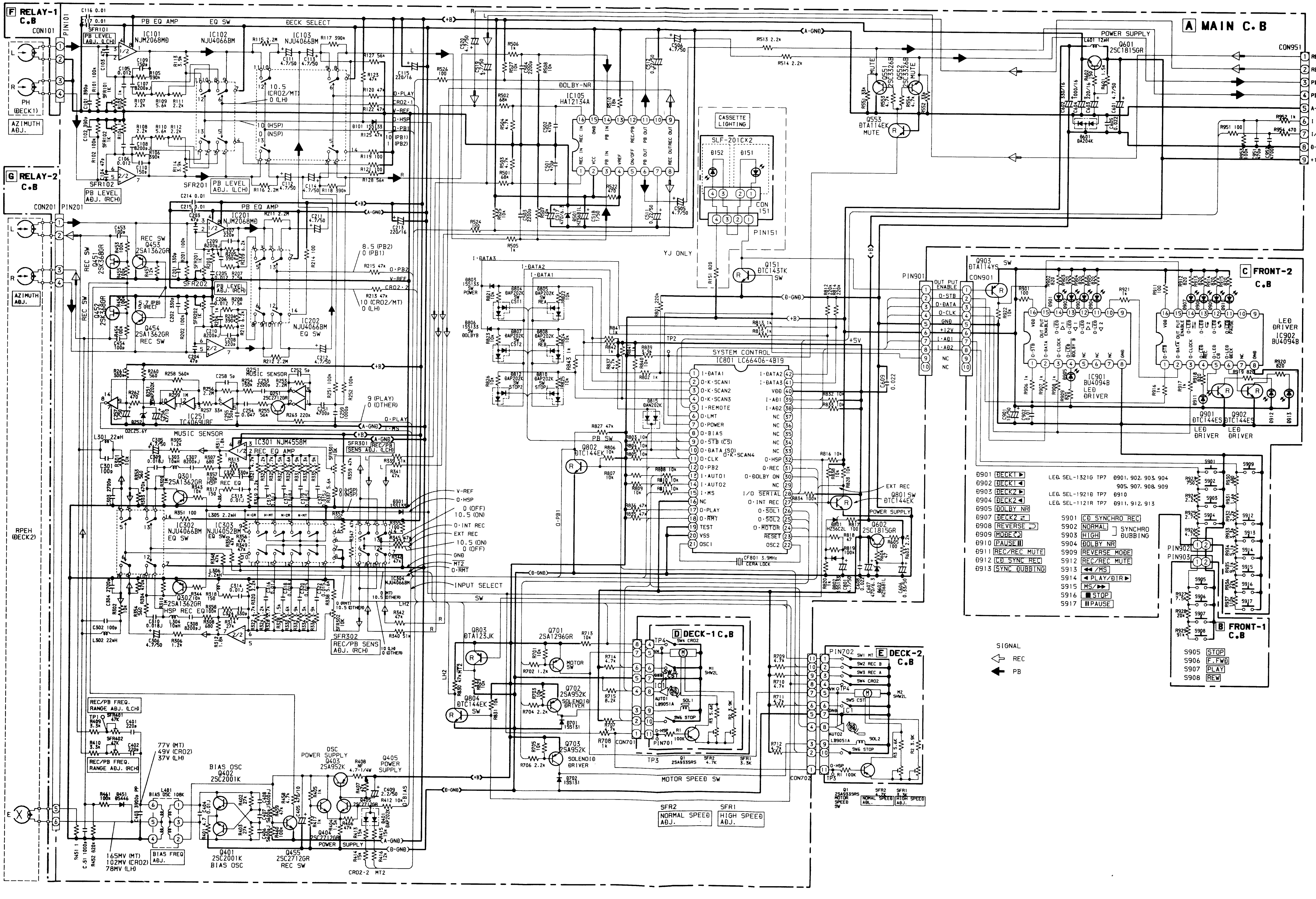
CLOCK	OUTPUT ENABLE	STROBE	DATA	PARALLEL OUTPUTS		SERIAL OUTPUTS	
				Q1	Qn	QS	Q'S
↑	L	×	×	Z	Z	Q7	NO CHG.
↓	L	×	×	Z	Z	NO CHG.	QS
↑	H	L	×	NO CHG.	NO CHG.	Q7	NO CHG.
↑	H	H	L	L	Qn − 1	Q7	NO CHG.
↑	H	H	H	H	Qn − 1	Q7	NO CHG.
↓	H	×	×	NO CHG.	NO CHG.	NO CHG.	QS

Z = HIGH IMPEDANCE   × = DON'T CARE

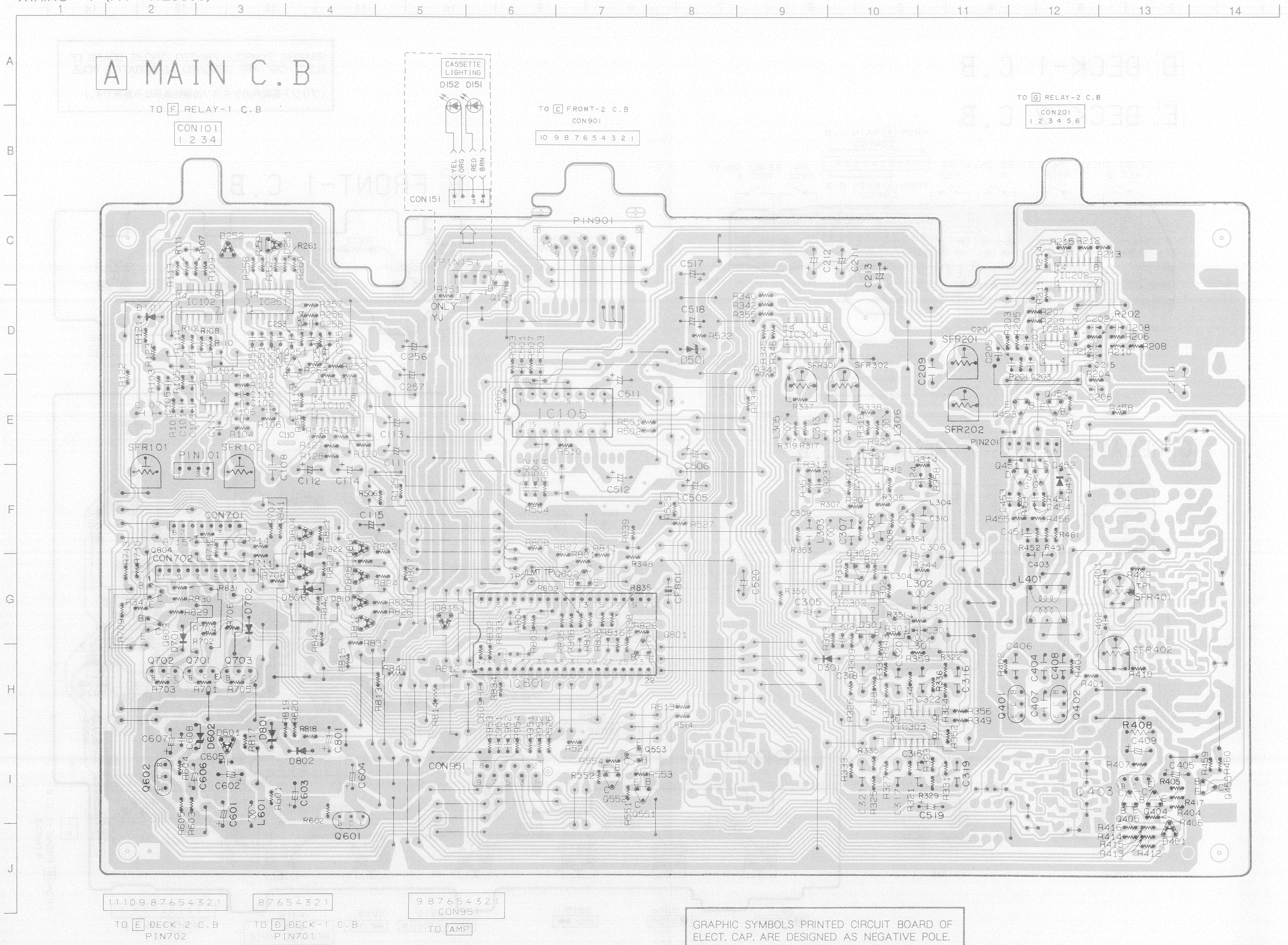
BLOCK DIAGRAM (FX – WZ5000)


DECK1 PH
IC101 NJM2068MD PB.EQ AMP
IC102 NJU4066BM EQ SW
EQ
SFR101 PB LEVEL ADJ.
O.HSP
CRO2 1
IC103 NJU4066BM
DECK SELECT
O.PB1
IC105 HA12134A DOLBY NR
PB IN
PB OUT
REC IN
REC OUT
DOLBY ON/OFF
REC/PB
O.REC
O.DOLBY OFF/B
Q551 MUTE
O.LMT
IC251 TC4069UBF
MUSIC SENSOR
I.MS
O.PLAY
DECK2 RPH
Q451 REC SW
Q453 REC SW
IC201 NJM2068MD
EQ
IC201 NJU4066BM
SFR201 PB LEVEL ADJ.
O.PB2
CRO2 2
D451
IC304 NJU4066BM
O.EXT.REC
O.INT.REC
C301
L301
IC302 NJU4066BM EQ SW
IC301 NIM4558M
REC EQ AMP
SFR301 REC/PB SENSOR ADJ.
REC EQ
Q301 EQ SW
IC303 NJU4052BF EQ SW
O.HSP
MT2
O.RMT
LH2
Q455
SFR401 REC/PB FREQ.RANGE ADJ.
Q401
Q402
L401
BIAS OSC
Q403, 404, 405 OSC.POWER SUPPLY
O.BIAS
DECK 2 EH
A MAIN C.B
CON951
TO AMP
REC IN R
REC IN L
PB OUT R
PB OUT L
A-GND
I REMOTE
I/O.SERIAL
D GND
+12V
MT2
MT2
Q803
Q802
O.PB1
O HSP
CRO2 1
CRO2 2
O.POWER
O.REC
O.DOLBY ON
O.INT.REC
O.EXT.REC
O.RMT
O.LMT
O.PLAY
O.PB2
I.MS
O.BIAS
IC801 LC66406-4B19
O.BIAS
I.MS
O.PB2
O.PLAY
O.LMT
O.RMT
Q801
O.INT REC
O.DOLBY ON
O.REC
O.POWER
I.AUTO1
I.AUTO2
I.DATA1
I.DATA2
I.DATA3
O.K.SCAN1
O.K.SCAN2
O.K.SCAN3
O.HSP
O.SOL1
O.SOL2
O.MOTOR
I.REMOTE
I/O.SERIAL
I.AD1
I.AD2
O.STB
O.DATA
O.CLK
DECK1 MECHA
DECK2 MECHA
KEY MATRIX CASSETTE MECH SW
SOLENOID DRIVER
MOTOR SW
YJ ONLY
CASSETTE LIGHTING
C FRONT-2 C・B
TACT SWX11
IC901 BU4094B
IC902 BU4094B
O.LED ◁ 1
O.LED ▷ 1
O.LED ◁ 2
O.LED ▷ 2
O.LED DOLBY B
O.LED
O.LED
O.LED PAUSE
O.LED REC
O.LED CD REC DUBB
O.LED DECK REC DUBB
O.LED

SCHEMATIC DIAGRAM (FX – WZ5000)

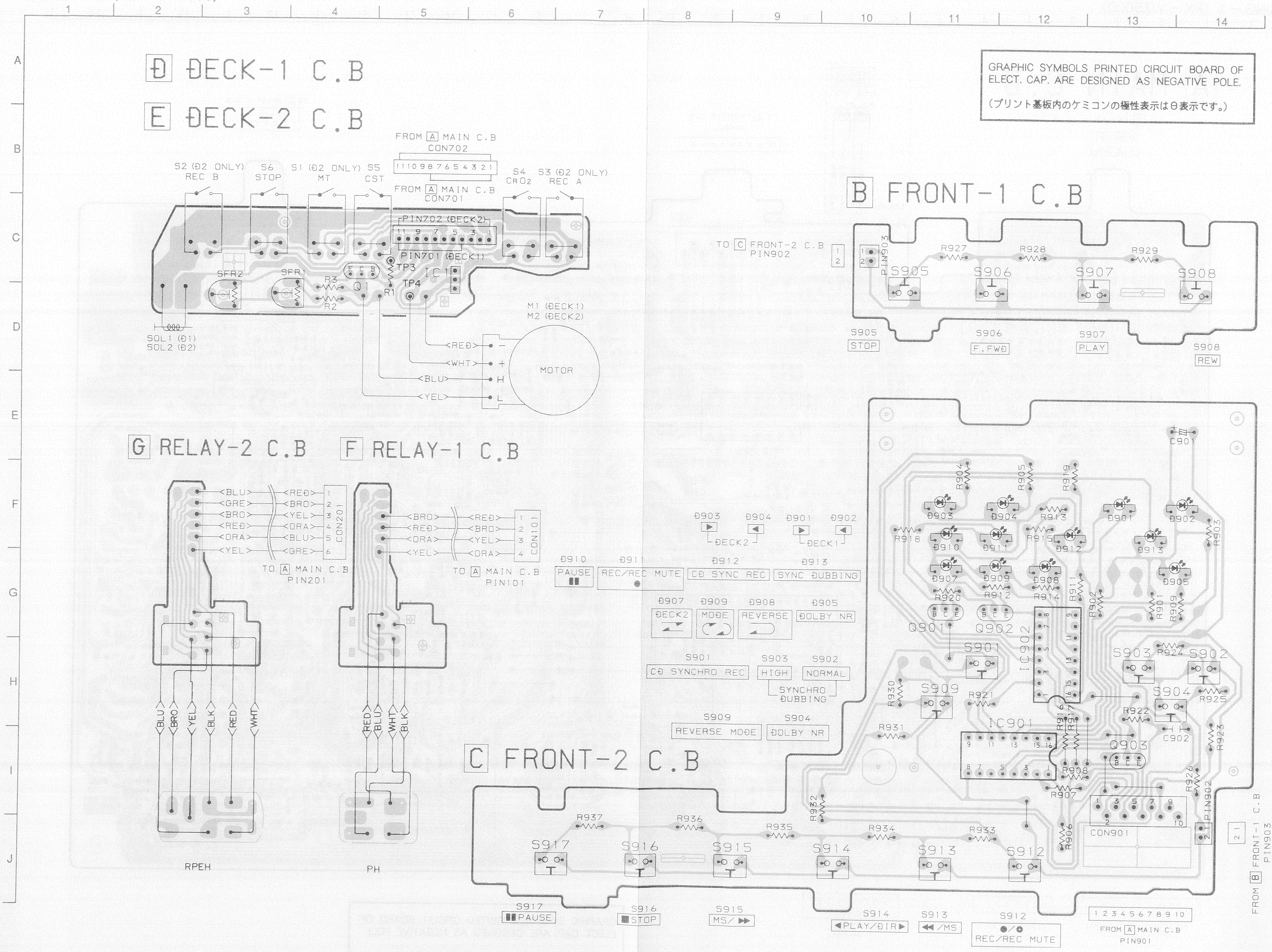

F RELAY-1 C.B
CON101
PIN101
PH (DECK1)
AZIMUTH ADJ.
G RELAY-2 C.B
CON201
PIN201
RPEH (DECK2)
PB EQ AMP
EQ SW
DECK SELECT
IC101 NJM2068MD
IC102 NJU4066BM
IC103 NJU4066BM
SFR101 PB LEVEL ADJ. (LCH)
SFR102 PB LEVEL ADJ. (RCH)
SFR201 PB LEVEL ADJ. (LCH)
SFR202 PB LEVEL ADJ. (RCH)
IC201 NJM2068MD
IC202 NJU4066BM EQ SW
Q451 2SC3268GR
Q452 2SC3268GR
Q453 2SA1362GR REC SW
Q454 2SA1362GR REC SW
REC SW
MUSIC SENSOR
IC251 TC4069UBF
Q251 2SC2712GR
IC301 NJM4558M
REC EQ AMP
SFR301 REC/PB SENS ADJ. (LCH)
SFR302 REC/PB SENS ADJ. (RCH)
Q301 2SA1362GR
Q302 2SA1362GR
IC302 NJU4066BM EQ SW
IC303 NJU4052BM
IC304 NJU4066BM
HSP REC EQ
INPUT SELECT
SW
REC/PB FREQ. RANGE ADJ. (LCH)
REC/PB FREQ. RANGE ADJ. (RCH)
SFR401
SFR402
77V (MT)
49V (CRO2)
37V (LH)
BIAS OSC
Q401 2SC2001K BIAS OSC
Q402 2SC2001K
L401 BIAS OSC 10BK
BIAS FREQ ADJ.
165MV (MT)
102MV (CRO2)
78MV (LH)
OSC POWER SUPPLY
Q403 2SA952K
Q404 2SC2712GR
Q405 POWER SUPPLY
Q455 2SC2712GR REC SW
POWER SUPPLY
CRO2·2 MT2
E
DOLBY-NR
IC105 HA12134A
REC IN
PB IN
VCC
VREF
ON/OFF
REC/PB
PB OUT
REC OUT
CASSETTE LIGHTING
SLF-201CX2
D152 D151
CON151
PIN151
YJ ONLY
Q151 DTC143TK SW
A MAIN C.B
POWER SUPPLY
Q601 2SC1815GR
L401 12mH
D601 DA204K
MUTE
Q551 2SC3326B
Q552 2SC3326B
Q553 DTA114EK MUTE
CON951
1 REC IN R
2 REC IN L
3 PB OUT R
4 PB OUT L
5 A-GND
6 I REMOTE
7 I/O-SERIAL
8 D-GND
9 +12V
TO AMP
D803 1SS133 SW POWER
D804 DAP202K SW CST1
D805 DAP202K SW REA
D806 1SS133 SW DOLBY
D807 DAP202K SW CST2
D808 DAP202K SW REB
D812 DAP202K SW STOP2
D810 DAP202K SW STOP1
D815 DAN202K
SYSTEM CONTROL
IC801 LC66406-4B19
1 I·DATA1
2 O·K·SCAN1
3 O·K·SCAN2
4 O·K·SCAN3
5 I·REMOTE
6 O·LMT
7 O·POWER
8 O·BIAS
9 O·STB (CS)
10 O·DATA (SO)
11 O·CLK
12 O·PB2
13 I·AUTO1
14 I·AUTO2
15 I·MS
16 NC
17 O·PLAY
18 O·RMT
19 TEST
20 VSS
21 OSC1
42 I·DATA2
41 I·DATA3
40 VDD
39 I·AD1
38 I·AD2
37 NC
36 NC
35 NC
34 NC
33 NC
32 O·HSP
31 O·REC
30 O·DOLBY ON
29 NC
28 I/O SERIAL
27 O·INT REC
26 O·SOL1
25 O·SOL2
24 O·MOTOR
23 RESET
22 OSC2
CF801 3.9MHz CERA LOCK
Q802 DTC144EK
Q801 SW DTC144EK
EXT REC
Q602 2SC1815GR POWER SUPPLY
D601 HZS6C2L
TP2
+5V
C FRONT-2 C.B
Q903 DTA114YS SW
CON901
PIN901
OUT PUT ENABLE
D·STB
D·DATA
D·CLK
GND
+12V
I·AD1
I·AD2
NC
IC901 BU4094B LED DRIVER
IC902 BU4094B LED DRIVER
Q901 DTC144ES LED DRIVER
Q902 DTC144ES LED DRIVER
D901 DECK1 ▶
D902 DECK1 ◀
D903 DECK2 ▶
D904 DECK2 ◀
D905 DOLBY NR
D907 DECK2 ⇄
D908 REVERSE
D909 MODE
D910 PAUSE
D911 REC/REC MUTE
D912 CD SYNC REC
D913 SYNC DUBBING
LED SEL-1321G TP7 D901, 902, 903, 904, 905, 907, 908, 909
LED SEL-1921D TP7 D910
LED SEL-1121R TP7 D911, 912, 913
S901 CD SYNCHRO REC
S902 NORMAL
S903 HIGH
SYNCHRO DUBBING
S904 DOLBY NR
S909 REVERSE MODE
S912 REC/REC MUTE
S913 ◀◀ /MS
S914 ◀ PLAY/DIR ▶
S915 MS/▶▶
S916 ■ STOP
S917 ∥ PAUSE
PIN902
PIN903
B FRONT-1 C.B
S905 STOP
S906 F.FWD
S907 PLAY
S908 REW
SIGNAL
REC
PB
Q803 DTA123JK
Q804 DTC144EK SW
Q701 2SA1296GR MOTOR SW
Q702 2SA952K SOLENOID DRIVER
Q703 2SA952K SOLENOID DRIVER
D701 1SS131
D702 1SS131
CON701
PIN701
D DECK-1 C.B
TP4
SW4 CRO2
M1 SHW2L
AUTO1 LB9051A
SOL1
SW6 STOP
SW5 CST
TP3
Q1 2SA935SRS
SFR2 4.7K
SFR1 3.3K
MOTOR SPEED SW
SFR2 NORMAL SPEED ADJ.
SFR1 HIGH SPEED ADJ.
CON702
PIN702
E DECK-2 C.B
SW1 MT
SW2 REC B
SW3 REC A
SW4 CRO2
M2 SHW2L
SW5 CST
AUTO2 LB9051A
SOL2
SW6 STOP
Q1 2SA935SRS MOTOR SPEED SW
SFR2 4.7K NORMAL SPEED ADJ.
SFR1 3.3K HIGH SPEED ADJ.
(+B)
(A-GND)
(B-GND)
(D-GND)
O·PLAY
O·HSP
O·PB1
O·PB2
O·INT REC
EXT REC
D·RMT
MT2
V-REF
10.5 (CRO2/MT)
0 (LH)
10 (HSP)
0 (NSP)
9 (PLAY)
0 (OTHER)
8.5 (PB2)
0 (PB1)
0 (OFF)
10.5 (ON)

WIRING – 1 (FX – WZ5000)


A MAIN C.B
TO F RELAY-1 C.B
CON101 1 2 3 4
CASSETTE LIGHTING
D152 D151
YEL ORG RED BRN
CON151
ONLY YJ
TO C FRONT-2 C.B
CON901
10 9 8 7 6 5 4 3 2 1
PIN901
TO G RELAY-2 C.B
CON201 1 2 3 4 5 6
IC101
IC102
IC103
IC105
IC201
IC208
IC251
IC301
IC302
IC303
IC304
IC801
SFR101
SFR102
SFR201
SFR202
SFR301
SFR302
SFR401
SFR402
PIN101
PIN151
PIN201
CON701
CON702
CON951
Q601
Q602
Q701
Q702
Q703
Q401
Q402
Q403
Q404
Q405
Q551
Q552
Q553
Q801
L301
L302
L401
L601
11 10 9 8 7 6 5 4 3 2 1
TO E DECK-2 C.B
PIN702
8 7 6 5 4 3 2 1
TO D DECK-1 C.B
PIN701
9 8 7 6 5 4 3 2 1
CON951
TO AMP

GRAPHIC SYMBOLS PRINTED CIRCUIT BOARD OF ELECT. CAP. ARE DESIGNED AS NEGATIVE POLE.

（プリント基板内のケミコンの極性表示は⊖表示です。）


1 2 3 4 5 6 7 8 9 10 11 12 13 14
A B C D E F G H I J
Ð ÐECK-1 C.B
E ÐECK-2 C.B
FROM A MAIN C.B CON702
FROM A MAIN C.B CON701
S2 (Ð2 ONLY) REC B
S6 STOP
S1 (Ð2 ONLY) MT
S5 CST
S4 CrO2
S3 (Ð2 ONLY) REC A
PIN702 (ÐECK2)
PIN701 (ÐECK1)
SFR2
SFR1
R3
R2
R1
Q1
E C B
TP3
TP4
IC1
SOL1 (Ð1)
SOL2 (Ð2)
M1 (ÐECK1)
M2 (ÐECK2)
MOTOR
<REÐ> −
<WHT> +
<BLU> H
<YEL> L
G RELAY-2 C.B
F RELAY-1 C.B
<BLU> <REÐ> 1
<GRE> <BRO> 2
<BRO> <YEL> 3
<REÐ> <ORA> 4
<ORA> <BLU> 5
<YEL> <GRE> 6
CON201
TO A MAIN C.B PIN201
<BRO> <REÐ> 1
<REÐ> <BRO> 2
<ORA> <YEL> 3
<YEL> <ORA> 4
CON101
TO A MAIN C.B PIN101
<BLU> <BRO> <YEL> <BLK> <RED> <WHT>
<RED> <BLU> <WHT> <BLK>
RPEH
PH
B FRONT-1 C.B
TO C FRONT-2 C.B PIN902
PIN903
R927 R928 R929
S905 S906 S907 S908
S905 STOP
S906 F.FWÐ
S907 PLAY
S908 REW
C FRONT-2 C.B
Ð903 Ð904 ÐECK2
Ð901 Ð902 ÐECK1
Ð910 PAUSE
Ð911 REC/REC MUTE
Ð912 CÐ SYNC REC
Ð913 SYNC ÐUBBING
Ð907 ÐECK2
Ð909 MOÐE
Ð908 REVERSE
Ð905 ÐOLBY NR
S901 CÐ SYNCHRO REC
S903 HIGH
S902 NORMAL
SYNCHRO ÐUBBING
S909 REVERSE MOÐE
S904 ÐOLBY NR
C901 C902
R901 R902 R903 R904 R905 R906 R907 R908 R909 R911 R912 R913 R914 R915 R916 R917 R918 R919 R920 R921 R922 R923 R924 R925 R926 R930 R931 R932 R933 R934 R935 R936 R937
Ð901 Ð902 Ð903 Ð904 Ð905 Ð907 Ð908 Ð909 Ð910 Ð911 Ð912 Ð913
Q901 Q902 Q903
B C E
IC901 IC902
S901 S902 S903 S904 S909
S912 S913 S914 S915 S916 S917
CON901
PIN902
FROM B FRONT-1 C.B PIN903
S917 PAUSE
S916 STOP
S915 MS/ ▶▶
S914 ◀PLAY/ÐIR▶
S913 ◀◀/MS
S912 ●/○ REC/REC MUTE
1 2 3 4 5 6 7 8 9 10
FROM A MAIN C.B PIN901

GRAPHIC SYMBOLS PRINTED CIRCUIT BOARD OF ELECT. CAP. ARE DESIGNED AS NEGATIVE POLE.

（プリント基板内のケミコンの極性表示はθ表示です。）

ELECTRICAL MAIN PARTS LIST (FX－WZ7000)

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

IC

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
	87-001-334-010		IC, LB9051A
	87-001-908-019		IC, CXA1332S
	87-002-861-010		IC, CXP2201 AS
	82-VW2-631-010		IC, LC66406-4B19
	87-017-022-089		IC, NJM2068M-D(T1)
	87-001-607-089		IC, NJM4558M
	87-017-023-089		IC, NJU4052BM
	87-001-224-089		IC, NJU4066BM
	87-020-730-089		IC, TC4069UBF

TRANSISTOR

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
	89-503-685-089		C-FET, 2SK368GR
	89-113-625-089		C-TR, 2SA1362GR(TAPG)
	89-327-125-089		C-TR, 2SC2712GR
	89-333-266-089		C-TR, 2SC3326B
	87-026-580-089		C-TR, DTA123JK
	87-026-223-089		C-TR, DTC143TK
	87-026-210-089		C-TR, DTC144EK T147
	87-026-227-089		C-TR, DTA114EK
	87-026-463-080		TR, 2SA933S (RS)
	89-112-965-089		TR, 2SA1296GR
	89-109-521-089		TR, 2SA952K
	89-318-155-089		TR, 2SC1815GR
	89-320-011-089		TR, 2SC2001K
	89-413-023-089		TR, 2SD1302S

DIODE

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
	87-017-024-089		C-DIODE, DA204K
	87-020-331-089		C-DIODE, DAN202K
	87-020-330-089		C-DIODE, DAP202K
	87-020-584-089		C-ZENER, 02CZ5. 6Y
	87-020-123-089		DIODE, DS446-AT(TA)
	87-001-559-059		DIODE, 1SS131, RA
	87-002-564-089		DIODE, 1SS133 RA
	87-020-109-019		LED, SLF-201C〈YJ〉
	87-027-329-089		ZENER, HZ22-L3
	87-017-069-059		ZENER, HZS3A1(RA)
	87-017-091-089		ZENER, HZS5C1
	87-001-290-059		ZENER, HZS6B1L RA
	87-001-731-059		ZENER, HZS7C2L RA

MAIN C.B

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
C101	87-012-158-089		C-CAP, S 390P-50 CH
C102	87-012-158-089		C-CAP, S 390P-50 CH
C103	87-010-318-089		C-CAP, S 47P-50 CH
C104	87-010-318-089		C-CAP, S 47P-50 CH
C105	87-010-426-089		C-CAP, S 0. 012-25 B
C106	87-010-426-089		C-CAP, S 0. 012-25 B
C109	87-012-154-089		C-CAP, S 150P-50 CH
C110	87-012-154-089		C-CAP, S 150P-50 CH
C111	87-010-404-089		CAP, E 4. 7-50 SME
C112	87-010-404-089		CAP, E 4. 7-50 SME
C113	87-010-404-089		CAP, E 4. 7-50 SME
C114	87-010-404-089		CAP, E 4. 7-50 SME
C115	87-010-101-089		CAP, E 220-16 SME
C116	87-010-197-089		C-CAP, S 0. 01-25 B
C117	87-010-197-089		C-CAP, S 0. 01-25 B
C201	87-012-157-089		C-CAP, S 330P-50 CH
C202	87-012-157-089		C-CAP, S 330P-50 CH
C203	87-010-318-089		C-CAP, S 47P-50 CH
C204	87-010-318-089		C-CAP, S 47P-50 CH
C205	87-010-426-089		C-CAP, S 0. 012-25 B
C206	87-010-426-089		C-CAP, S 0. 012-25 B
C207	87-012-156-089		C-CAP, S 220P CH
C208	87-012-156-089		C-CAP, S 220P CH
C211	87-010-404-089		CAP, E 4. 7-50 SME
C212	87-010-404-089		CAP, E 4. 7-50 SME
C213	87-010-101-089		CAP, E 220-16 SME
C214	87-010-197-089		C-CAP, S 0. 01-25 B
C215	87-010-197-089		C-CAP, S 0. 01-25 B
C251	87-010-186-089		C-CAP, S 4700P-50 B
C252	87-010-149-089		C-CAP, S 5P-50 CH
C253	87-010-182-089		C-CAP, S 2200P-50 B
C254	87-010-596-089		C-CAP, S 0. 047-16 RK
C255	87-012-154-089		C-CAP, S 150P-50 CH
C256	87-010-374-089		CAP, E 47-10
C257	87-010-401-089		CAP, E 1-50 SME
C258	87-010-149-089		C-CAP, S 5P-50 CH
C259	87-010-178-089		C-CAP, S 1000P-50 B
C301	87-010-321-089		C-CAP, S 82P-50 CH
C302	87-010-321-089		C-CAP, S 82P-50 CH
C303	87-010-183-089		C-CAP, S 2700P-50 B
C304	87-010-183-089		C-CAP, S 2700P-50 B
C305	87-010-404-089		CAP, E 4. 7-50 SME
C306	87-010-404-089		CAP, E 4. 7-50 SME
C323	87-012-157-089		C-CAP, S 330P-50 CH
C324	87-012-157-089		C-CAP, S 330P-50 CH
C401	87-012-156-089		C-CAP, S 220P CH
C402	87-012-156-089		C-CAP, S 220P CH
C403	87-014-071-089		CAP, PP 3900P-100 J
C405	87-010-221-089		CAP, E 470-10
C409	87-010-402-089		CAP, E 2. 2-50 SME
C451	87-010-178-089		C-CAP, S 1000P-50 B
C453	87-010-322-089		C-CAP, S 100P-50 CH
C454	87-010-322-089		C-CAP, S 100P-50 CH
C501	87-010-175-089		C-CAP, S 560P-50 SL
C502	87-010-175-089		C-CAP, S 560P-50 SL
C503	87-010-182-089		C-CAP, S 2200P-50 B
C504	87-010-182-089		C-CAP, S 2200P-50 B
C505	87-010-404-089		CAP, E 4. 7-50 SME
C506	87-010-404-089		CAP, E 4. 7-50 SME
C507	87-010-182-089		C-CAP, S 2200P-50 B
C508	87-010-182-089		C-CAP, S 2200P-50 B
C509	87-010-182-089		C-CAP, S 2200P-50 B
C510	87-010-182-089		C-CAP, S 2200P-50 B
C511	87-010-825-089		CAP, E 0. 56/50V, SME
C512	87-010-825-089		CAP, E 0. 56/50V, SME
C513	87-010-546-089		CAP, E 0. 33-50 SME
C514	87-010-546-089		CAP, E 0. 33-50 SME
C515	87-010-404-089		CAP, E 4. 7-50 SME
C516	87-010-404-089		CAP, E 4. 7-50 SME
C517	87-010-371-089		CAP, E 470-6. 3
C518	87-010-101-089		CAP, E 220-16 SME
C519	87-012-360-089		C-CAP, S 1-10FZ
C520	87-012-360-089		C-CAP, S 1-10FZ
C521	87-010-179-089		C-CAP, S 1200P-50 B
C522	87-010-179-089		C-CAP, S 1200P-50 B
C601	87-010-404-089		CAP, E 4. 7-50 SME
C602	87-010-237-089		CAP, E 1000-16
C603	87-010-101-089		CAP, E 220-16 SME
C604	87-010-237-089		CAP, E 1000-16
C605	87-010-198-089		C-CAP, S 0. 022-25 B
C606	87-010-546-089		CAP, E 0. 33-50 SME
C607	87-010-371-089		CAP, E 470-6. 3
C608	87-010-198-089		C-CAP, S 0. 022-25 B
C609	87-015-822-089		C-CAP, 0. 022
C751	87-010-546-089		CAP, E 0. 33-50 SME
C752	87-010-546-089		CAP, E 0. 33-50 SME
C753	87-010-405-089		CAP, E 10-50 SME
C754	87-010-405-089		CAP, E 10-50 SME
C755	87-010-263-089		CAP, E 100-10
C756	87-010-260-089		CAP, E 47-25 SME
C801	87-010-404-089		CAP, E 4. 7-50 SME
C951	87-012-140-089		C-CAP, S 470P-50 CH
C952	87-010-186-089		C-CAP, S 4700P-50 B
CF801	89-MX1-704-089		CERA LOCK(MU)3. 9MHZ

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
CON801	82-VW2-624-019		F-CABLE 3P-2. 0
CON951	82-VW2-623-019		CORD, FG 9P-1. 5
L301	87-005-525-089		COIL, 22MH-J
L302	87-005-525-089		COIL, 22MH-J
L303	87-003-131-089		COIL, 10MH J
L304	87-003-131-089		COIL, 10MH J
L305	87-003-123-089		COIL, 2. 2MH J
L306	87-003-123-089		COIL, 2. 2MH J
L401	80-VW1-605-119		COIL, OSC BIAS 108K
L601	87-005-474-089		COIL, 12UH J FLR50
L602	87-005-239-019		COIL, 100UH
R408	87-025-471-089		RES NF 4. 7-1/4WJ
SFR101	87-024-349-089		SFR, 1K DIA6 H
SFR102	87-024-349-089		SFR, 1K DIA6 H
SFR201	87-024-349-089		SFR, 1K DIA6 H
SFR202	87-024-349-089		SFR, 1K DIA6 H
SFR301	87-024-353-089		SFR, 10K DIA6 H
SFR302	87-024-353-089		SFR, 10K DIA6 H
SFR401	87-024-356-089		SFR, 47K DIA6 H
SFR402	87-024-356-089		SFR, 47K DIA6 H

FRONT-1 C.B

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
S905	87-036-215-089		SW, TACT EVQ21404M〈YJ〉
S905	87-036-259-089		SW, TACT SKHVBB〈Y〉
S906	87-036-215-089		SW, TACT EVQ21404M〈YJ〉
S906	87-036-259-089		SW, TACT SKHVBB〈Y〉
S907	87-036-215-089		SW, TACT EVQ21404M〈YJ〉
S907	87-036-259-089		SW, TACT SKHVBB〈Y〉
S908	87-036-215-089		SW, TACT EVQ21404M〈YJ〉
S908	87-036-259-089		SW, TACT SKHVBB〈Y〉

FRONT-2 C.B

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
C901	87-010-263-089		CAP, E 100-10
C904	87-018-214-089		CAP, TC U 0. 1-50 F
C908	87-016-251-049		CAP, E 220-16 SMG
C910	87-014-067-089		CAP, PP 2700P-100 J
C912	87-010-407-089		CAP, E 33-50 SME
C913	87-018-214-089		CAP, TC U 0. 1-50 F
C914	87-018-214-089		CAP, TC U 0. 1-50 F
CF901	89-MX1-704-089		CERA LOCK(MU)3. 9MHZ
FL901	82-VW1-621-010		FL BJ125GK
FR901	87-025-471-089		RES, NF 4. 7-1/4WJ
FR902	87-025-471-089		RES, NF 4. 7-1/4WJ
L901	87-003-051-089		COIL, 470UH
L902	87-003-102-089		COIL, 10UH
S901	87-036-215-089		SW, TACT EVQ21404M〈YJ〉
S901	87-036-259-089		SW, TACT SKHVBB〈Y〉
S902	87-036-215-089		SW, TACT EVQ21404M〈YJ〉
S902	87-036-259-089		SW, TACT SKHVBB〈Y〉
S903	87-036-215-089		SW, TACT EVQ21404M〈YJ〉
S903	87-036-259-089		SW, TACT SKHVBB〈Y〉
S904	87-036-215-089		SW, TACT EVQ21404M〈YJ〉
S904	87-036-259-089		SW, TACT SKHVBB〈Y〉
S909	87-036-215-089		SW, TACT EVQ21404M〈YJ〉
S909	87-036-259-089		SW, TACT SKHVBB〈Y〉
S911	87-036-215-089		SW, TACT EVQ21404M〈YJ〉
S911	87-036-259-089		SW, TACT SKHVBB〈Y〉
S912	87-036-215-089		SW, TACT EVQ21404M〈YJ〉
S912	87-036-259-089		SW, TACT SKHVBB〈Y〉
S913	87-036-215-089		SW, TACT EVQ21404M〈YJ〉
S913	87-036-259-089		SW, TACT SKHVBB〈Y〉
S914	87-036-215-089		SW, TACT EVQ21404M〈YJ〉
S914	87-036-259-089		SW, TACT SKHVBB〈Y〉
S915	87-036-215-089		SW, TACT EVQ21404M〈YJ〉
S915	87-036-259-089		SW, TACT SKHVBB〈Y〉
S916	87-036-215-089		SW, TACT EVQ21404M〈YJ〉
S916	87-036-259-089		SW, TACT SKHVBB〈Y〉
S917	87-036-215-089		SW, TACT EVQ21404M〈YJ〉
S917	87-036-259-089		SW, TACT SKHVBB〈Y〉
T901	82-VW1-623-019		COIL, FL

DECK-1 C.B

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
M1	87-045-348-010		MOT, SHW 2L 70
PIN701	87-009-236-010		CONN, 8P PH H
SFR1	87-024-170-080		SFR, 3. 3K DIA 6V
SFR2	87-024-171-080		SFR, 4. 7K DIA 6V
SOL1	82-ZM1-618-010		SOL ASSY, 27
SW4	87-036-110-010		SW, PUSH SPPB 62
SW5	87-036-110-010		SW, PUSH SPPB 62
SW6	87-036-110-010		SW, PUSH SPPB 62

DECK-2 C.B

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
M2	87-045-348-010		MOT, SHW 2L 70
PIN702	87-009-752-010		CONN, 11P PH H WHT
SFR1	87-024-170-080		SFR, 3. 3K DIA 6V
SFR2	87-024-171-080		SFR, 4. 7K DIA 6V
SOL2	82-ZM1-618-010		SOL ASSY, 27
SW1	87-036-110-010		SW, PUSH SPPB 62
SW2	87-036-110-010		SW, PUSH SPPB 62
SW3	87-036-110-010		SW, PUSH SPPB 62
SW4	87-036-110-010		SW, PUSH SPPB 62
SW5	87-036-110-010		SW, PUSH SPPB 62
SW6	87-036-110-010		SW, PUSH SPPB 62

RELAY-1 C.B

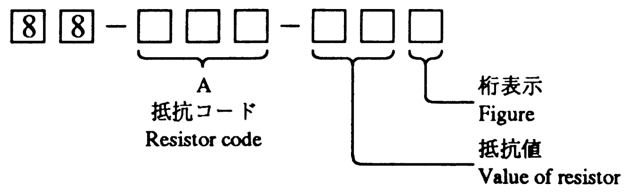
RELAY-2 C.B

MISCELLANEOUS

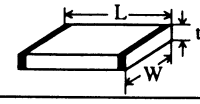
REF. NO	PART NO.	カンリ NO.	DESCRIPTION
PH	87-046-355-010		HEAD, PH HADKH2529B (D1)
RPH	87-046-356-010		HEAD, RPH HADKH5581B (D2)

○チップ抵抗部品コード／CHIP RESISTOR PART CODE

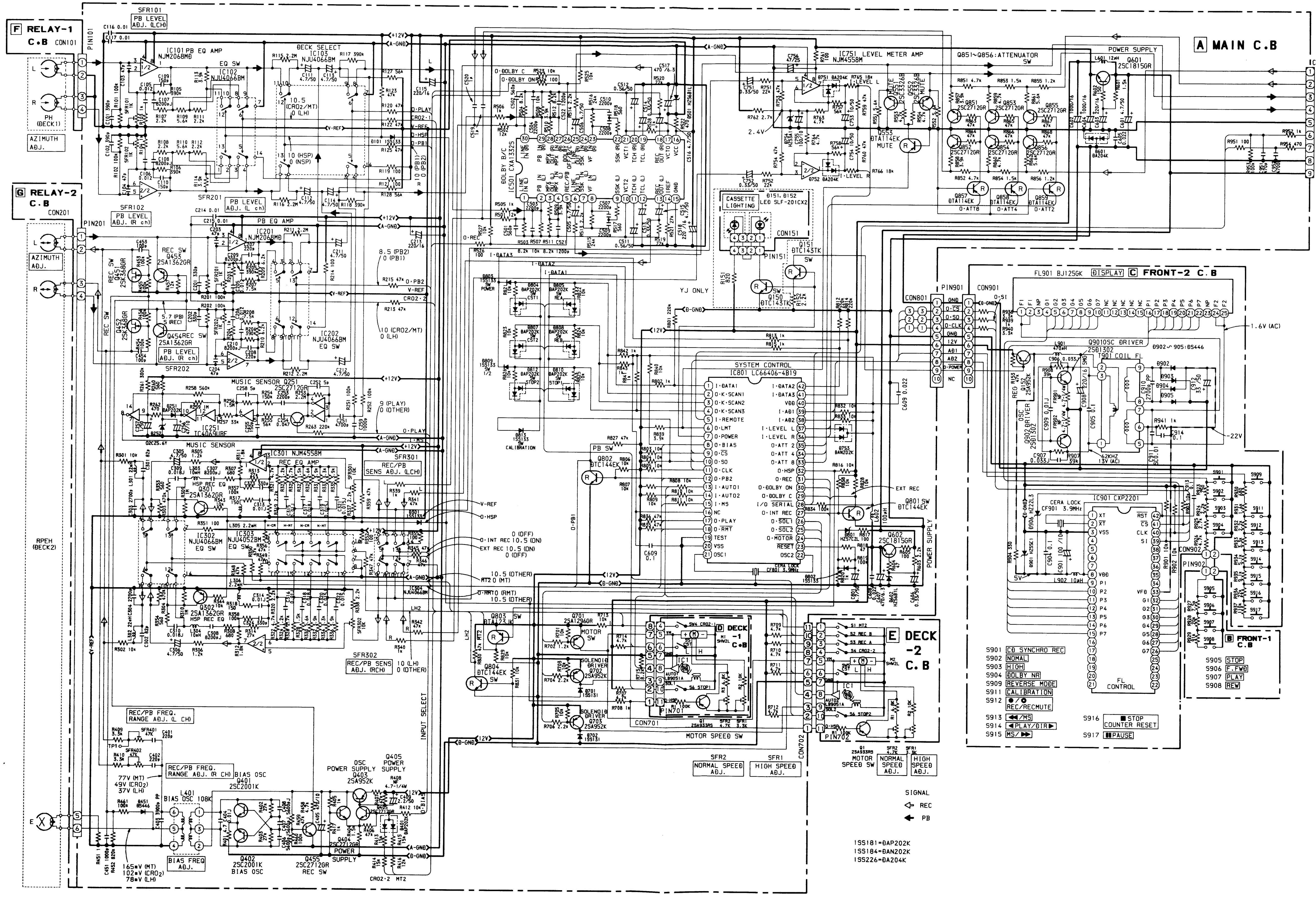
チップ抵抗部品コードの成り立ち
Chip resistor part coding



チップ抵抗
Chip resistor

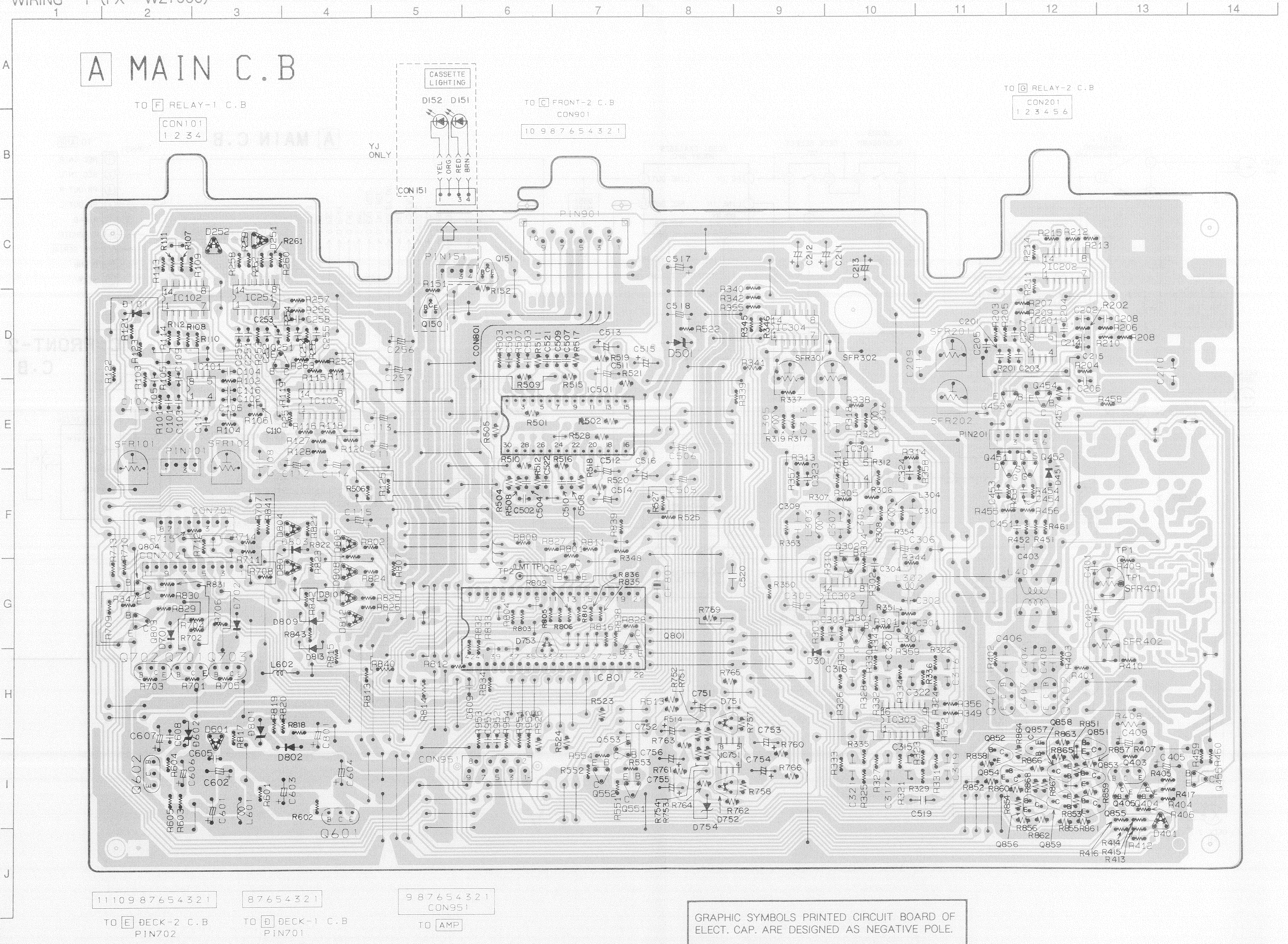
Wattage 容量	Type 種類	Tolerance 許容誤差	Symbol 記号	Dimensions／寸法 (mm)				Resistor code : A 抵抗コード : A
				Form/外形	L	W	t	
1/32W	1608	±5%	CJ		1.6	0.8	0.35	108
1/10W	2125	±5%	CJ		2	1.25	1.45	118
1/8W	3216	±5%	CJ		3.2	1.6	0.5 ～0.7	128

SCHEMATIC DIAGRAM (FX – WZ7000)


F RELAY-1 C.B CON101
G RELAY-2 C.B CON201
A MAIN C.B
C FRONT-2 C.B
B FRONT-1 C.B
D DECK-1 C.B
E DECK-2 C.B
CON951
REC-R
REC-L
PB-R
PB-L
A-GND
D-REMOTE
I/O-SERIAL
D-GND
VM (+12V)
TO AMP
PH (DECK1)
RPEH (DECK2)
AZIMUTH ADJ.
SFR101 PB LEVEL ADJ. (LCH)
SFR102 PB LEVEL ADJ. (R ch)
SFR201 PB LEVEL ADJ. (L ch)
SFR202 PB LEVEL ADJ. (R ch)
SFR301 REC/PB SENS ADJ. (LCH)
SFR302 REC/PB SENS ADJ. (RCH)
IC101 PB EQ AMP NJM2068MD
IC102 NJU4066BM EQ SW
IC103 NJU4066BM DECK SELECT
IC201 NJM2068MD PB EQ AMP
IC202 NJU4066BM EQ SW
IC251 TC4069UBF
MUSIC SENSOR Q251 2SC2712GR
MUSIC SENSOR
IC301 NJM4558M REC EQ AMP
IC302 NJU4066BM EQ SW
IC303 NJU4052BM EQ SW
HSP REC EQ Q301 2SA1362GR
HSP REC EQ Q302 2SA1362GR
REC SW Q451 2SK368GR
REC SW Q452 2SK368GR
REC SW Q453 2SA1362GR
Q454 REC SW 2SA1362GR
IC501 CXA1332S DOLBY B/C
IC751 LEVEL METER AMP NJM4558M
Q851~Q856: ATTENUATOR SW
POWER SUPPLY Q601 2SC1815GR
Q553 DTA114EK MUTE
Q551 2SC3326B MUTE
Q552 2SC3326B MUTE
D151, D152 LED SLF-201CX2
CASSETTE LIGHTING
CON151
PIN151
Q151 DTC143TK SW
Q150 DTC143TK SW
YJ ONLY
SYSTEM CONTROL IC801 LC66406-4B19
PB SW Q802 DTC144EK
Q801 SW DTC144EK
Q602 2SC1815GR POWER SUPPLY
EXT REC
CALIBRATION
CON801
PIN901
CON901
FL901 BJ125GK DISPLAY
Q901 OSC DRIVER 2SD1302
Q902 OSC DRIVER 2SD1302
T901 COIL FL
D902~905: DS446
1.6V (AC)
-22V
IC901 CXP2201 FL CONTROL
CERA LOCK CF901 3.9MHz
CON902
PIN902
Q803 MT2 SW
Q804 DTC144EK SW
Q701 2SA1296GR MOTOR
Q702 2SA952K SOLENOID DRIVER
Q703 2SA952K SOLENOID DRIVER
CON701
PIN701
MOTOR SPEED SW
CON702
PIN702
SFR2 NORMAL SPEED ADJ.
SFR1 HIGH SPEED ADJ.
Q1 2SA933RS MOTOR SPEED SW
SFR2 NORMAL SPEED ADJ.
SFR1 HIGH SPEED ADJ.
INPUT SELECT
REC/PB FREQ. RANGE ADJ. (L CH)
REC/PB FREQ. RANGE ADJ. (R CH)
BIAS OSC Q401 2SC2001K
Q402 2SC2001K BIAS OSC
L401 BIAS OSC 108K
OSC POWER SUPPLY Q403 2SA952K
Q405 POWER SUPPLY
Q404 2SC2712GR POWER SUPPLY
Q455 2SC2712GR REC SW
BIAS FREQ ADJ.
77V (MT) 49V (CrO2) 37V (LH)
165mV (MT) 102mV (CrO2) 78mV (LH)
S901 CD SYNCHRO REC
S902 NOMAL
S903 HIGH
S904 DOLBY NR
S909 REVERSE MODE
S911 CALIBRATION
S912 ●/⏸ REC/RECMUTE
S913 ◀◀/MS
S914 ◀PLAY/DIR▶
S915 MS/▶▶
S916 ■STOP COUNTER RESET
S917 ⏸PAUSE
S905 STOP
S906 F.FWD
S907 PLAY
S908 REW
SIGNAL
REC
PB
1SS181=DAP202K
1SS184=DAN202K
1SS226=DA204K

WIRING – 1 (FX – WZ7000)

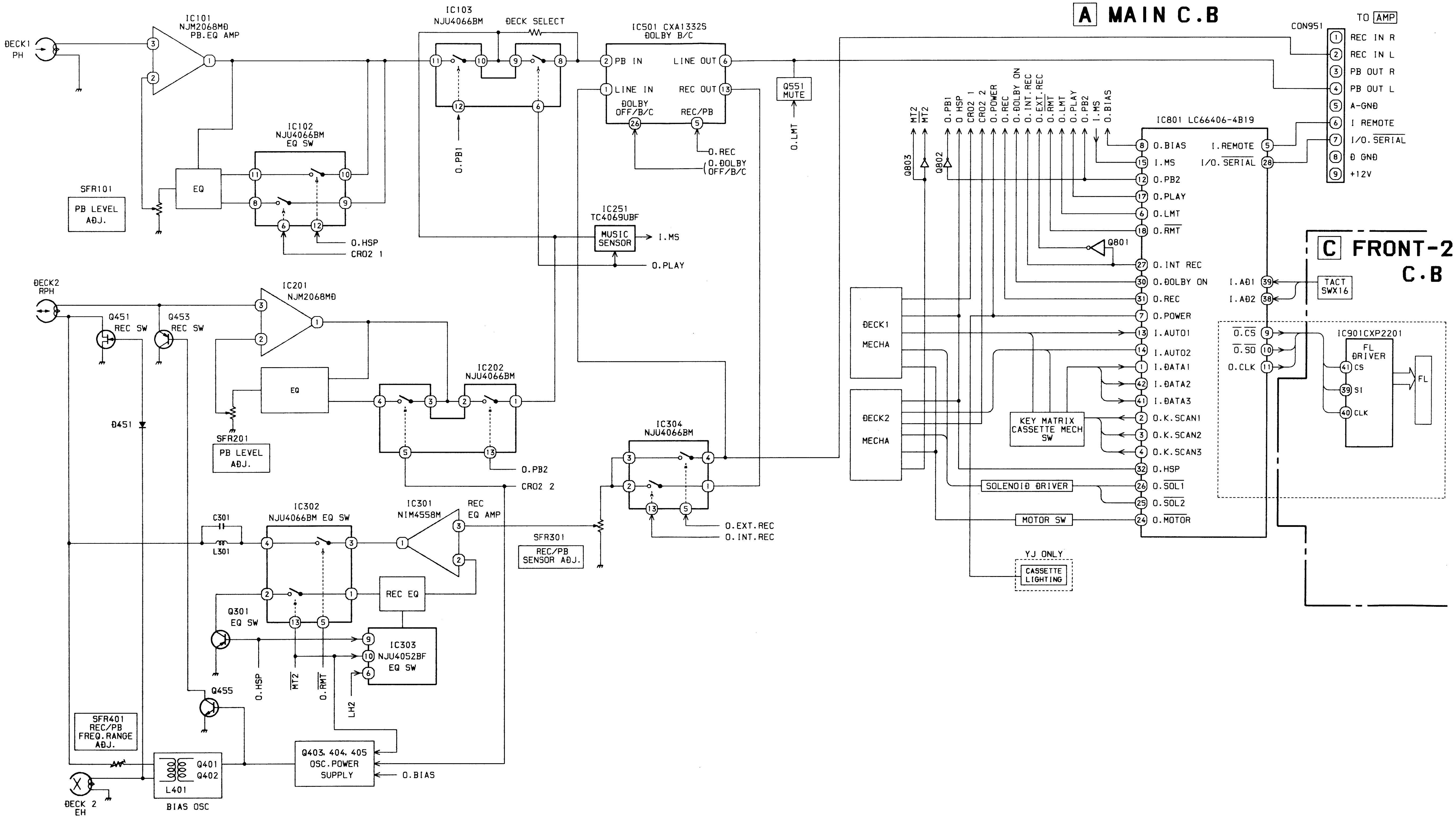
A MAIN C.B


1 2 3 4 5 6 7 8 9 10 11 12 13 14
A B C D E F G H I J
CASSETTE LIGHTING
D152 D151
YJ ONLY
YEL ORG RED BRN
CON151
TO F RELAY-1 C.B
CON101
1 2 3 4
TO C FRONT-2 C.B
CON901
10 9 8 7 6 5 4 3 2 1
PIN901
TO G RELAY-2 C.B
CON201
1 2 3 4 5 6
PIN151
PIN101
PIN201
CON801
CON701
CON702
CON951
IC101
IC102
IC103
IC201
IC202
IC251
IC301
IC302
IC303
IC304
IC501
IC751
IC801
SFR101
SFR102
SFR201
SFR202
SFR301
SFR302
SFR401
SFR402
TP1
TP2
LMT TP
11 10 9 8 7 6 5 4 3 2 1
TO E DECK-2 C.B
PIN702
8 7 6 5 4 3 2 1
TO D DECK-1 C.B
PIN701
9 8 7 6 5 4 3 2 1
CON951
TO AMP

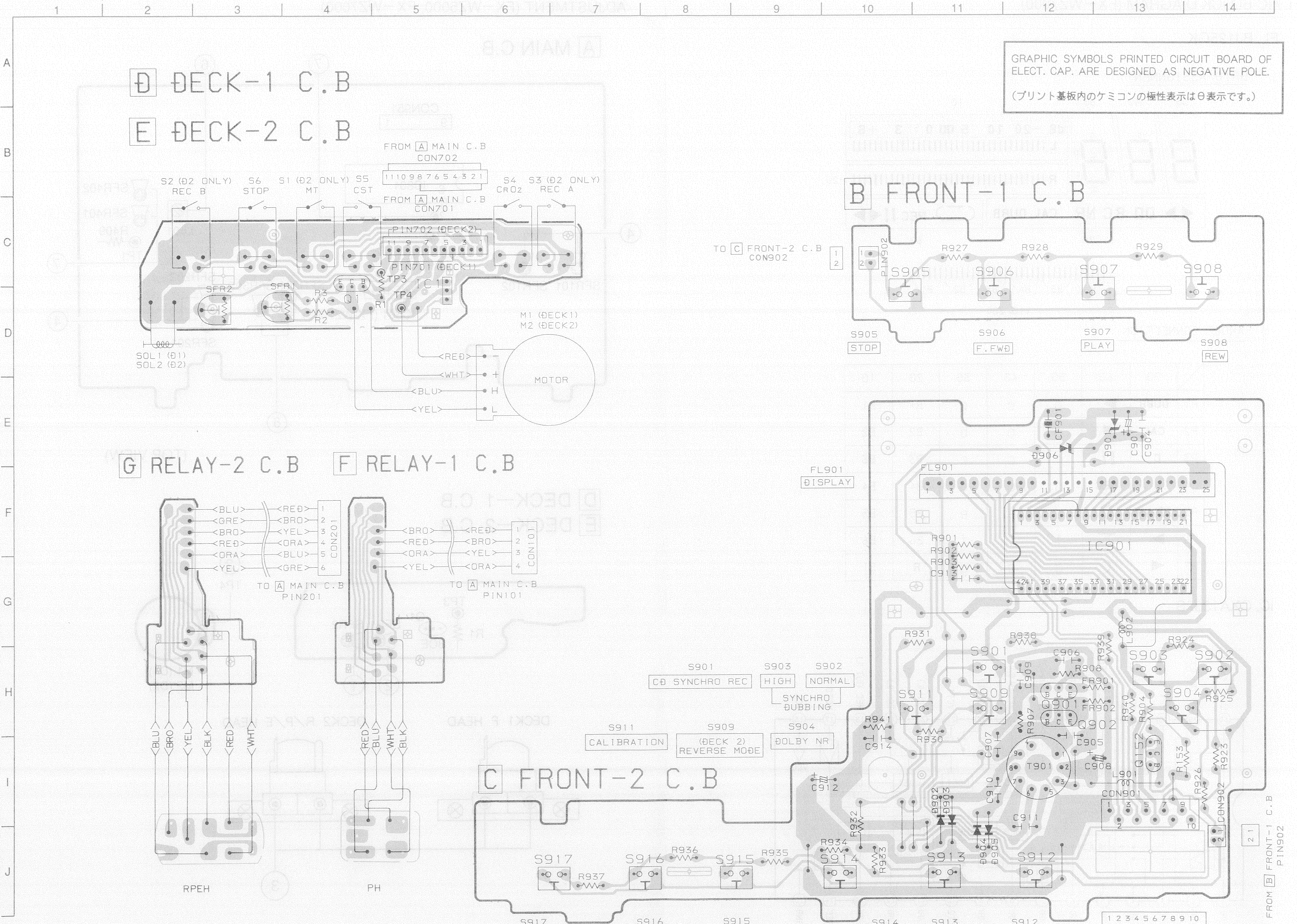
GRAPHIC SYMBOLS PRINTED CIRCUIT BOARD OF ELECT. CAP. ARE DESIGNED AS NEGATIVE POLE.

(プリント基板内のケミコンの極性表示は⊖表示です。)

BLOCK DIAGRAM (FX – WZ7000)


A MAIN C.B
C FRONT-2 C.B
DECK1 PH
IC101 NJM2068MD PB.EQ AMP
IC102 NJU4066BM EQ SW
EQ
SFR101 PB LEVEL ADJ.
O.HSP
CRO2 1
IC103 NJU4066BM
DECK SELECT
O.PB1
IC501 CXA1332S DOLBY B/C
PB IN
LINE OUT
LINE IN
REC OUT
DOLBY OFF/B/C
REC/PB
O.REC
O.DOLBY OFF/B/C
Q551 MUTE
O.LMT
IC251 TC4069UBF
MUSIC SENSOR
I.MS
O.PLAY
DECK2 RPH
Q451 REC SW
Q453 REC SW
IC201 NJM2068MD
EQ
SFR201 PB LEVEL ADJ.
IC202 NJU4066BM
O.PB2
CRO2 2
D451
IC304 NJU4066BM
O.EXT.REC
O.INT.REC
SFR301 REC/PB SENSOR ADJ.
C301
L301
IC302 NJU4066BM EQ SW
IC301 NIM4558M
REC EQ AMP
REC EQ
Q301 EQ SW
IC303 NJU4052BF EQ SW
O.HSP
MT2
O.RMT
LH2
Q455
SFR401 REC/PB FREQ.RANGE ADJ.
Q401
Q402
L401
BIAS OSC
DECK 2 EH
Q403, 404, 405 OSC.POWER SUPPLY
O.BIAS
MT2
MT2
O.PB1
O.HSP
CRO2 1
CRO2 2
O.POWER
O.REC
O.DOLBY ON
O.INT.REC
O.EXT.REC
O.RMT
O.LMT
O.PLAY
O.PB2
I.MS
O.BIAS
Q803
Q802
IC801 LC66406-4B19
O.BIAS
I.MS
O.PB2
O.PLAY
O.LMT
O.RMT
Q801
O.INT REC
O.DOLBY ON
O.REC
O.POWER
I.AUTO1
I.AUTO2
I.DATA1
I.DATA2
I.DATA3
O.K.SCAN1
O.K.SCAN2
O.K.SCAN3
O.HSP
O.SOL1
O.SOL2
O.MOTOR
I.REMOTE
I/O.SERIAL
I.AD1
I.AD2
O.CS
O.SO
O.CLK
DECK1 MECHA
DECK2 MECHA
KEY MATRIX CASSETTE MECH SW
SOLENOID DRIVER
MOTOR SW
YJ ONLY
CASSETTE LIGHTING
CON951
TO AMP
REC IN R
REC IN L
PB OUT R
PB OUT L
A-GND
I REMOTE
I/O. SERIAL
D GND
+12V
TACT SWX16
IC901CXP2201
FL DRIVER
CS
SI
CLK
FL

WIRING – 2 (FX – WZ7000)


1 2 3 4 5 6 7 8 9 10 11 12 13 14
A B C D E F G H I J
Đ ĐECK-1 C.B
E ĐECK-2 C.B
FROM A MAIN C.B CON702
FROM A MAIN C.B CON701
S2 (Đ2 ONLY) REC B
S6 STOP
S1 (Đ2 ONLY) MT
S5 CST
S4 CRO2
S3 (Đ2 ONLY) REC A
PIN702 (ĐECK2)
PIN701 (ĐECK1)
TP3
TP4
IC1
Q1
R1
R2
R3
SFR1
SFR2
SOL1 (Đ1)
SOL2 (Đ2)
M1 (ĐECK1)
M2 (ĐECK2)
MOTOR
RED
WHT
BLU
YEL
G RELAY-2 C.B
F RELAY-1 C.B
CON201
CON101
TO A MAIN C.B PIN201
TO A MAIN C.B PIN101
BLU BRO YEL BLK RED WHT
RED BLU WHT BLK
RPEH
PH
B FRONT-1 C.B
TO C FRONT-2 C.B CON902
PIN902
R927 R928 R929
S905 STOP
S906 F.FWĐ
S907 PLAY
S908 REW
FL901 ĐISPLAY
IC901
CF901
Đ901 Đ906
C901 C904
R901 R902 R903 C913
R931 R938 R939 L902 R924
S901 CĐ SYNCHRO REC
S903 HIGH
S902 NORMAL
SYNCHRO ĐUBBING
S911 CALIBRATION
S909 (ĐECK 2) REVERSE MOĐE
S904 ĐOLBY NR
C906 C909 R908 FR901 FR902
Q901 Q902 Q152
R940 R904 R925
R941 C914 R930
R907 C907 C905 C908
T901
L901 R153 R923 R926
CON901
CON902
C910 C911 C912
Đ902 Đ903 Đ904 Đ905
R932 R933 R934 R935 R936 R937
C FRONT-2 C.B
S917 ▮▮PAUSE
S916 ■STOP COUNTER RESET
S915 MS/ ▶▶
S914 ◀PLAY/ĐIR▶
S913 ◀◀/MS
S912 ●/● REC/REC MUTE
1 2 3 4 5 6 7 8 9 10
FROM A MAIN C.B PIN901
FROM B FRONT-1 C.B PIN902

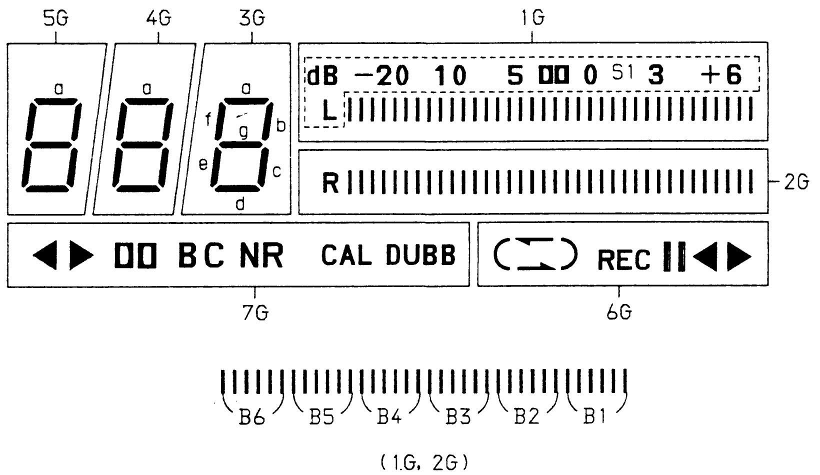
GRAPHIC SYMBOLS PRINTED CIRCUIT BOARD OF ELECT. CAP. ARE DESIGNED AS NEGATIVE POLE.

（プリント基板内のケミコンの極性表示は⊖表示です。）

FL / IC BLOCK DIAGRAM (FX—WZ7000)

FL, BJ125GK

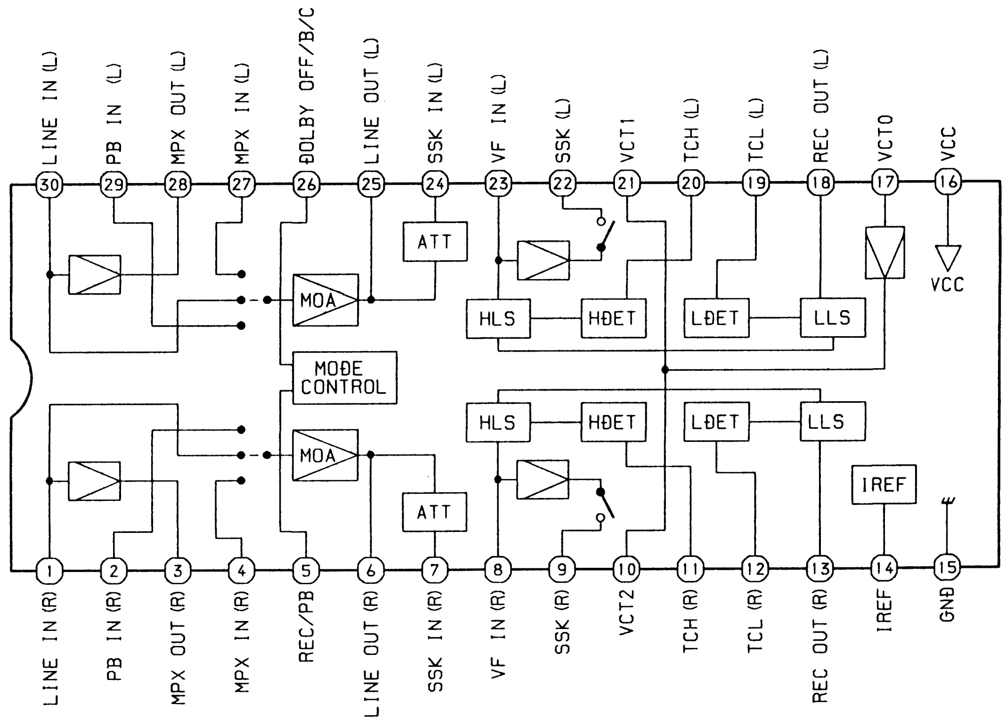
GRID ASSIGNMENT


5G
4G
3G
1G
a
f
g
b
e
c
d
dB −20 10 5 DD 0 S1 3 +6
L
R
2G
◀▶ DD BC NR CAL DUBB
REC II◀▶
7G
6G
B6
B5
B4
B3
B2
B1
(1G, 2G)

ANODE CONNECTION

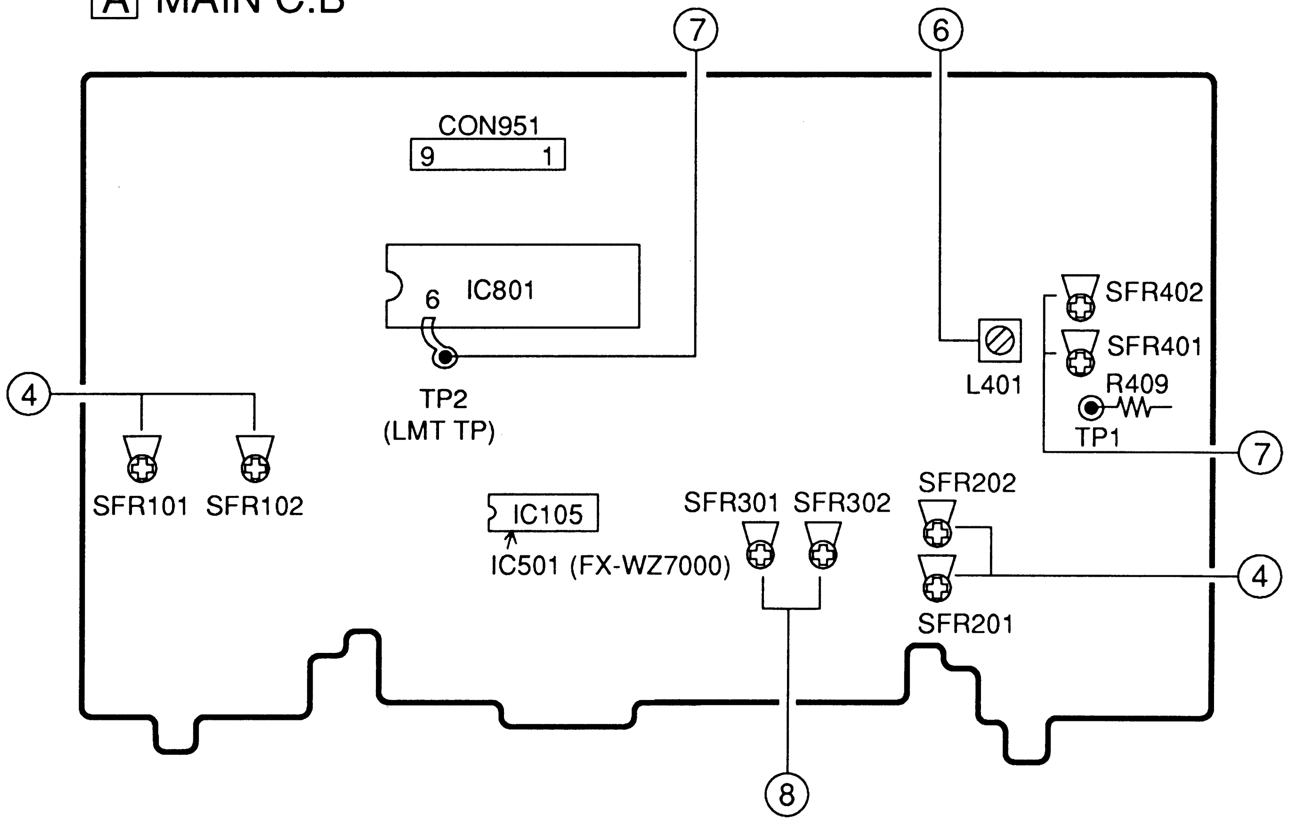
	7G	6G	5G	4G	3G	2G	1G
P1	**DUBB**	▶	a	a	a	B1	B1
P2	**CAL**	◀	b	b	b	B2	B2
P3	**C**	II	c	c	c	B3	B3
P4	**B**	**REC**	d	d	d	B4	B4
P5	**DD NR**	)	e	e	e	B5	B5
P6	▶	⇆	f	f	f	B6	B6
P7	◀	(	g	g	g	**R**	S1

IC, CXA1332S


LINE IN (L) 30
PB IN (L) 29
MPX OUT (L) 28
MPX IN (L) 27
DOLBY OFF/B/C 26
LINE OUT (L) 25
SSK IN (L) 24
VF IN (L) 23
SSK (L) 22
VCT1 21
TCH (L) 20
TCL (L) 19
REC OUT (L) 18
VCTO 17
VCC 16
VCC
ATT
MOA
HLS
HDET
LDET
LLS
MODE CONTROL
MOA
HLS
HDET
LDET
LLS
ATT
IREF
1 LINE IN (R)
2 PB IN (R)
3 MPX OUT (R)
4 MPX IN (R)
5 REC/PB
6 LINE OUT (R)
7 SSK IN (R)
8 VF IN (R)
9 SSK (R)
10 VCT2
11 TCH (R)
12 TCL (R)
13 REC OUT (R)
14 IREF
15 GND

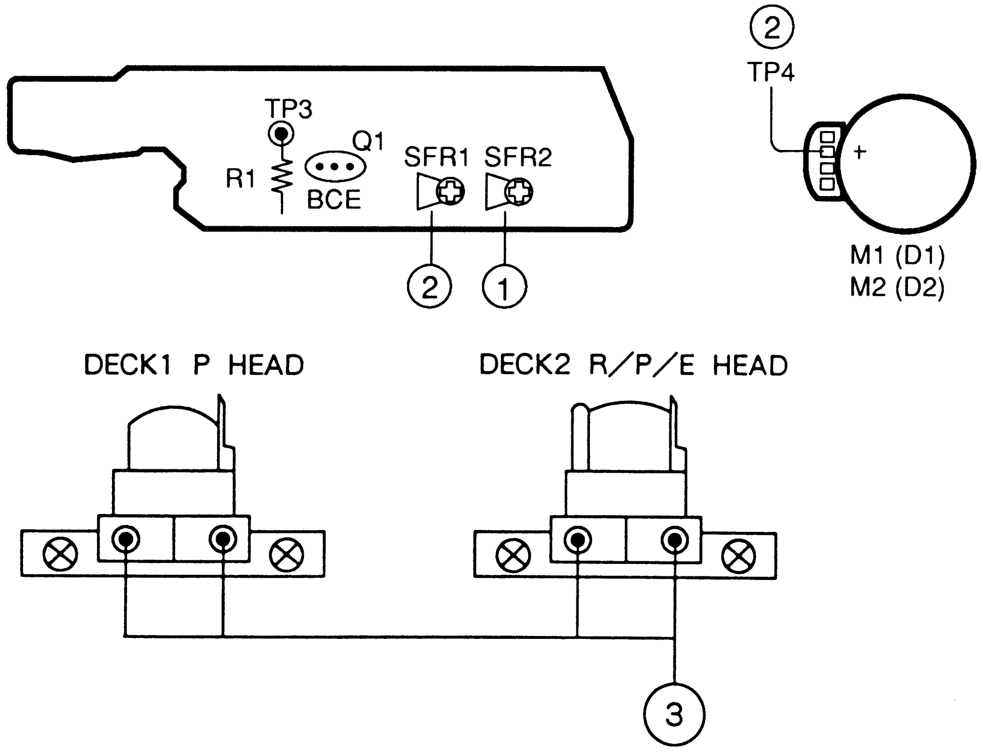
ADJUSTMENT (FX—WZ5000, FX—WZ7000)

A MAIN C.B


⑦
⑥
CON951
9
1
IC801
6
TP2
(LMT TP)
L401
SFR402
SFR401
R409
TP1
⑦
④
SFR101
SFR102
IC105
IC501 (FX-WZ7000)
SFR301
SFR302
SFR202
SFR201
④
⑧

(TOP VIEW)

D DECK—1 C.B
E DECK—2 C.B


TP3
R1
Q1
BCE
SFR1
SFR2
②
①
②
TP4
+
M1 (D1)
M2 (D2)
DECK1 P HEAD
DECK2 R/P/E HEAD
③

1. Normal Speed Adjustment (DECK1, DECK2)

Settings: · Test tape: TTA-100 (TTA-111S)
· Test Point : PB-OUT (CON951)
· Adjustment Location: SFR2 (DECK1)
SFR2 (DECK2)

Method: Play back the test tape, adjust for 3000 ±7Hz.

2. High Speed Adjustment (DECK1, DECK2)

Settings: · Test tape: TTA-100 (TTA-111S)
· Test Point : PB-OUT (CON951)
· Adjustment Location: SFR1 (DECK1)
SFR1 (DECK2)

Method: After normal speed adjustment, play back the test tape, and make the high speed condition to be shorted between TP3 and TP4. Adjust for 6000 ±10Hz.

3. Head Azimuth Adjustment (DECK1, DECK2)

Settings: · Test tape: TTA-310 (TTA-317E, SCC-1429)
· Test Point : PB-OUT (CON951)
· Adjustment Location: Head azimuth adjustment screw

Method: Play back the 10kHz signal of the test tape and adjust so that the output becomes maximum in each FWD PLAY and REV PLAY mode.

4. PB Level Adjustment (DECK1, DECK2)

Settings: · Test tape: TTA-200 (TTA-161, TCC-130)
· Test Point : PB-OUT (CON951)
· Adjustment Location: SFR101 (DECK1, Lch)
SFR102 (DECK1, Rch)
SFR201 (DECK2, Lch)
SFR202 (DECK2, Rch)

Method: Play back the test tape and adjust so that the output becomes 280mV ± 15mV.

5. FWD/REV Playback Output Difference Check (DECK1, DECK2)

Settings: · Test tape: TTA-200 (TTA-161, TCC-130)
· Test Point : PB-OUT (CON951)

Method: Play back the test tape and make sure that the output difference between the FWD and REV modes is 0dB ±0.7dB.

6. Bias Frequency Adjustment (DECK2)

Settings: · Test tape: TTA-601 (TTA-600, TTA-119K)
· Test Point : TP1
· Adjustment Location: L401

Method: Set DECK2 to the record mode and adjust L401 so that the frequency at TP1 is 107.5kHz ± 1.5kHz.

7. REC/PB Frequency Response Adjustment (DECK2)

Settings: · Test tape: TTA-601 (TTA-600, TTA-119K)
· Test Point : PB-OUT (CON951)
· Adjustment Location: SFR401 (Lch)
SFR402 (Rch)

Method: Connect TP2 (LMT TP) to ground (chassis), apply a 1kHz signal and adjust attenuator so that the level at the PB OUT is 25mV.

Record and play back the 1kHz and 10kHz signals and adjust so that the output level of 10kHz signal is 0dB ±0.3dB for 1kHz signal. After adjustment, remove the grounding lead wire.

8. REC/PB Sensitivity Adjustment (DECK2)

Settings: · Test tape: TTA-601 (TTA-600, TTA-119K)
· Test Point : PB-OUT (CON951)
· Adjustment Location: SFR301 (Lch)
SFR302 (Rch)

Method: Connect TP2 (LMT TP) to ground (chassis), apply a 1kHz signal and adjust attenuator so that the level at the PB OUT is 25mV.

Record and play back the 1kHz signal and adjust so that the output level of is 25mV ±0.3dB. After adjustment, remove the grounding lead wire.

PRACTICAL SERVICE FIGURE (FX – WZ5000, FX – WZ7000)

PB output level:	280mV ±34mV TTA-200 (TTA-161, TCC-130)
REC/PB output level:	250mV ± 1dB (PB-OUT, 1kHz)
Distortion (REC/PB):	Less than 2.0% (NORM., CrO_2)
Erasing ratio:	More than 60dB
Crosstalk:	More than 60dB
Channel separation:	More than 35dB
Noise (REC/PB):	Less than 2.0mV (DOLBY OFF NORM.) Less than 1.0mV. (DOLBY B ON CrO_2, MT) Less than 0.8mV (DOLBY C ON CrO_2, MT)
Noise (PB):	Less than 1.8mV (DOLBY OFF NORM.) Less than 0.9mV (DOLBY B ON CrO_2) Less than 0.8mV (DOLBY C ON CrO_2)
Recording bias frequency:	108kHz
Tape speed:	3000Hz ± 1.5%
Wow & flutter (W.RMS):	Less than 0.18% (DECK1, 2)
Take-up torque:	30~55g-cm (DECK1, 2)
F.F & REW torque:	75~160g-cm (DECK1, 2)
Back tension:	2~6g-cm (DECK1, 2)
Test tape:	NORMAL: TTA-601 (TTA-600, TTA-119K) CrO_2: TTA-610 (TTA-119H)

IC DESCRIPTION (FX−WZ5000, FX−WZ7000)

IC, LC66406−4B19

Pin No.	Pin Name	I/O	Description			
			KEY DATA input			
			When K・SCAN1 is "H"	When K・SCAN2 is "H"	When K・SCAN3 is "H"	When K・SCAN4 is "H"
1	DATA1	I	DECK2 REC A SW input	DECK2 REC B SW input	DECK1 STOP SW input	SW CD HIGH SPEED (ON/OFF)
42	DATA2	I	DECK1 CST SW input	DECK2 CST SW input	DECK2 STOP SW input	SW CAL (Calibration ON/OFF)
41	DATA3	I	SW・POWER input	SW・DOLBYC (ON/OFF)	DECK1/2 SW input	
2	O・K・SCAN1	O	SCAN output terminal of DATA 1～3.			
3	O・K・SCAN2	O				
4	O・K・SCAN3	O				
5	I・REMOTE	I	Serial data input terminal of remote controller.			
6	O・LMT	O	Output terminal for record/playback monitor output signal muting. "H" at muting.			
7	O・POWER	O	POWER ON/OFF control.			
8	O・BIAS	O	Bias oscillation output terminal for DECK 2. "H" at recording/dubbing. "L" at resetting.			
9	O・$\overline{\text{STB}}$ ($\overline{\text{CS}}$)	O	Strobe signal for the shift register (IC, BU4094).			
10	O・DATA (SO) / K・SCAN4	O	Serial data for the shift register PLL IC.			
11	O・CLK	O	Serial data clock signal for the shift register PLL IC.			
12	O・PB2	O	Playback output control terminal for DECKS 1 and 2. "H" at playback with DECK 2.			
13	I・AUTO1	I	Reel pulse input terminal for DECK 1.			
14	I・AUTO2	I	Reel pulse input terminal for DECK 2.			
15	I・MS	I	MS signal input terminal. Active "H".			
16	NC	−	Not used.			
17	O・PLAY	O	Cue/review mute output and MS sensitivity switching output terminal. "H" at playback.			
18	O・$\overline{\text{RMT}}$	O	Muting output terminal for recording input. "H" at record mute, record start, record clear and record pause.			
19	TEST	−	MPU test terminal. Connected with Vss.			
20	VSS	−	Common terminal for MPU I/O and power supply.			
21	OSC1	−	3.9MHz Oscillation terminal			
22	OSC2	−				
23	$\overline{\text{RESET}}$	I	Reset input terminal. Active "L".			
24	O・$\overline{\text{MOTOR}}$	O	Main motor control output terminal for decks 1 and 2. "L" with both decks at STOP.			
25	O・$\overline{\text{SOL2}}$	O	Solenoid drive output terminal for DECK 2. Active "L".			
26	O・$\overline{\text{SOL1}}$	O	Solenoid drive output terminal for DECK 1. Active "L".			
27	O・INT REC	O	Recording input source switching output terminal for deck 2. "H": Deck 1 at STOP, FF or REW (with DECK NOR, DECK HI, CD NOR, DECK2 REC). "L": In other modes: Deck 2 at REC, etc. (with CD HI, DECK2 PLAY/STOP, DECK1 PLAY).			
28	I/O・$\overline{\text{SERIAL}}$	I/O	Input/output terminal for serial data with CD, AMPLIFIER and TUNER.			
29	NC	−	Not used.			
30	O・DOLBY ON	O	DOLBY NR ON/OFF switching output terminal. "H" at DOLBY NR ON.			
31	O・REC	O	Dolby encoder/decoder switching output terminal. "H" at recording and "L" at dubbing.			
32	O・HSP	O	High-speed control output terminal for DECKS 1 and 2. "H" at HIGH SPEED DUBBING.			

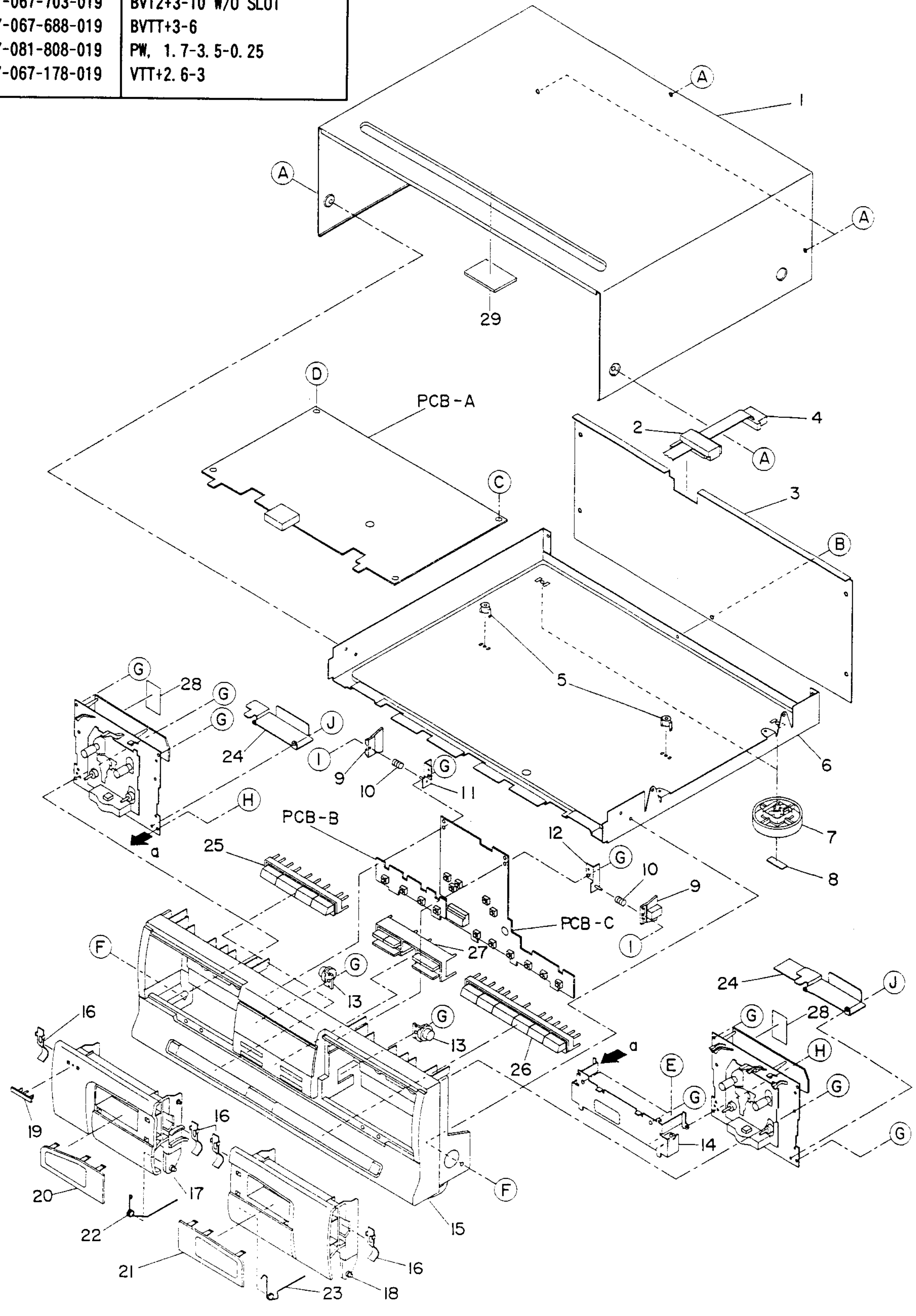
Pin No.	Pin Name	I/O	Description
33	NC	–	Not used.
34			
35			
36			
37			
38	I · AD2	I	Key function control input terminal.
39	I · AD1	I	
40	VDD	–	Power terminal (+5V).

IC, CXP2201AS

Pin No.	Pin Name	I/O	Description
1	EXT	I	Ceramic connector for system clock oscillator use. When using an external clock, input to EXT, and leave XT open.
2	$\overline{XT}$	O	
3	Vss	–	Connect to Vss.
4 ≀ 7	NC	–	Not used.
8	VDD	–	Connect to VDD.
9 ≀ 15	P1 ≀ P7	O	Exclusive segment output (with built-in pull-down resistor).
16 ≀ 25	NC	–	Not used.
26 ≀ 32	G7 ≀ G1	O	Exclusive timing output (with built-in pull-down resistor).
33	VFDP	–	Load power supply for FDP.
34 ≀ 38	NC	–	Not used.
39	SI	I	Serial data input.
40	CLK	I	Shift clock input.
41	$\overline{CS}$	I	Chip select input.
42	$\overline{RST}$	I/O	Reset (with built-in pull-up resistor and power-on reset circuit).

EXPLODED VIEW – 1 (FX – WZ5000)

REF.	PART NO.	DESCRIPTION
A	87-743-094-419	UT2+3-6 W/O SLOT BLK
B	87-067-660-019	BVT2+3-8 W/O SLOT BLK
C	87-067-758-019	BVT2+3-12 W/O SLOT
D	87-067-776-019	BVT2+3-12W CONVEX
E	87-067-584-019	BVT2+3-6
F	87-721-095-419	QT2+3-8 GLD W/O SLOT
G	87-067-703-019	BVT2+3-10 W/O SLOT
H	87-067-688-019	BVTT+3-6
I	87-081-808-019	PW, 1.7-3.5-0.25
J	87-067-178-019	VTT+2.6-3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PCB-A
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PCB-C
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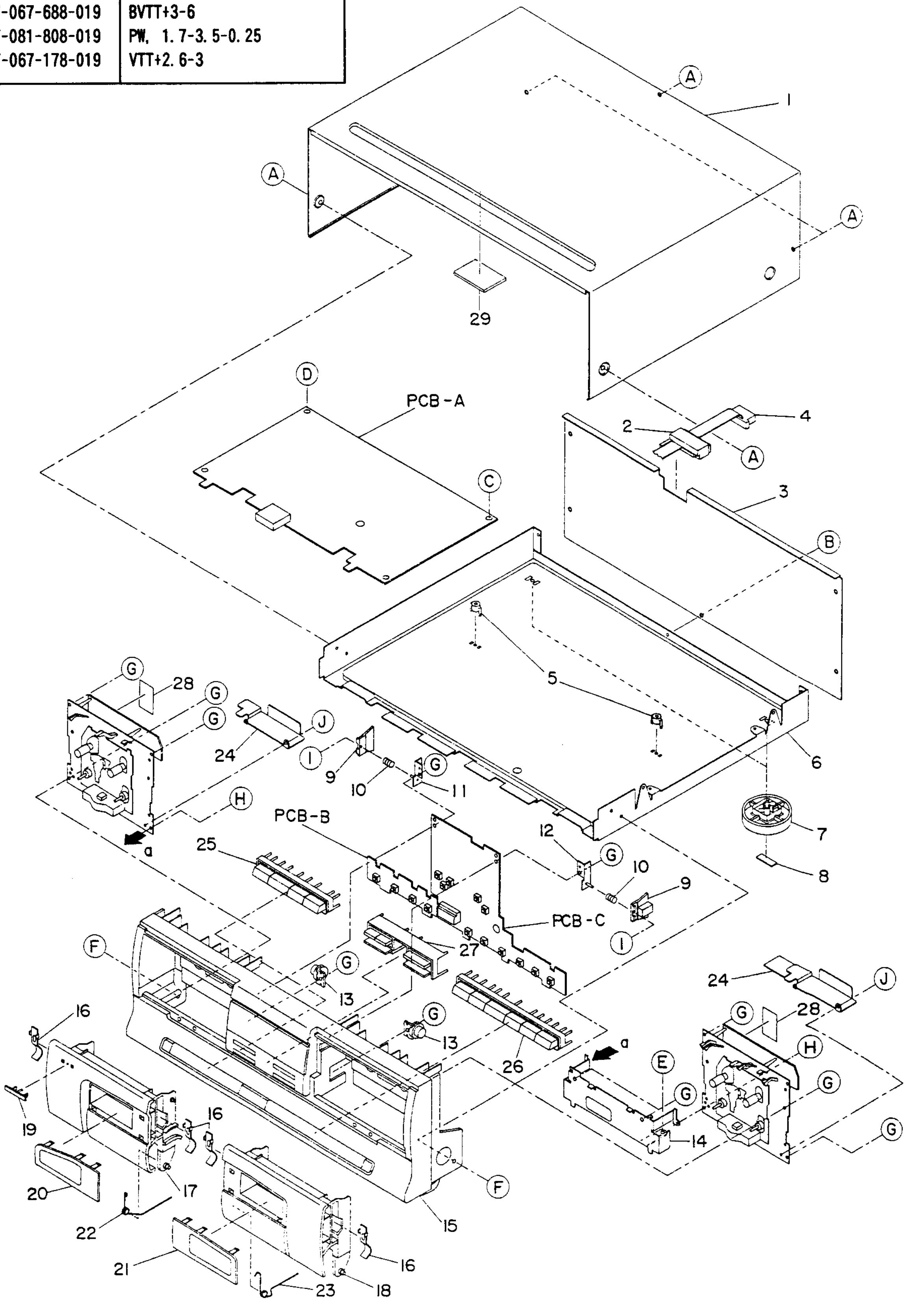
MECHANICAL PARTS LIST (FX－WZ5000)

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q,TY
	1-1	★81-VW1-028-018	CAB, STEEL G (YNE)		1
	1-1	★81-VW1-017-119	CAB, STEEL (YJ)		1
	1-2	★89-VT5-202-010	BUSHING, CORD		1
	1-3	★82-VW2-018-119	PANEL, REAR YBNE (YNE)	※	1
	1-3	★82-VW2-017-119	PANEL, REAR YJBN (YJ)	※	1
	1-4	★82-VW2-623-019	CORD, FG 9P 750	※	1
	1-5	---	HLDR, PCB 6.0		2
	1-6	---	CHASSIS, AMP		1
	1-7	★81-VX1-012-019	FOOT, REAR		2
	1-8	★82-VW2-211-019	FELT 20－7.5－2	※	2
	1-9	★80-CD3-233-010	PLATE, LOCK		2
	1-10	★81-715-234-019	SPR－C, LOCK PLATE 5V		2
	1-11	★82-VW2-201-019	HLDR ASSY, LOCK 1	※	1
	1-12	★82-VW2-202-010	HLDR ASSY, LOCK 2	※	1
	1-13	★87-063-143-010	OIL－DMPR 75		2
	1-14	★82-VW2-207-019	HLDR, BOX	※	1
	1-15	★09-047-737-010	CAB, FR ASSY	※	1
	1-16	★81-MX4-223-019	SPR－P, CASS		4
	1-17	★82-VW2-015-219	BOX, CASS 1 EX	※	1
	1-18	★82-VW2-020-219	BOX, CASS 2 EX	※	1
	1-19	★81-DS1-011-019	BADGE, AIWA N		1
	1-20	★82-VW2-010-019	WINDOW, CASS 1	※	1
	1-21	★82-VW2-011-019	WINDOW, CASS 2	※	1
	1-22	★82-VW2-208-019	SPR－T, EJECT 1	※	1
	1-23	★82-VW2-209-019	SPR－T, EJECT 2	※	1
	1-24	★82-VW2-618-119	PLATE, SHLD MECHA	※	2
	1-25	★82-VW2-005-019	KEY, PLAY	※	1
	1-26	★82-VW2-006-019	KEY, REC	※	1
	1-27	★82-VW2-007-019	KEY, DUBB	※	1
	1-28	★80-MK2-206-010	DMPR, 27－44.5－5.3		2
	1-29	★82-226-274-010	DMPR, 80－60－3 (YNE)		1

EXPLODED VIEW – 1 (FX – WZ7000)

REF.	PART NO.	DESCRIPTION
A	87-743-094-419	UT2+3-6 W/O SLOT BLK
B	87-067-660-019	BVT2+3-8 W/O SLOT BLK
C	87-067-758-019	BVT2+3-12 W/O SLOT
D	87-067-776-019	BVT2+3-12W CONVEX
E	87-067-584-019	BVT2+3-6
F	87-721-095-419	QT2+3-8 GLD W/O SLOT
G	87-067-703-019	BVT2+3-10 W/O SLOT
H	87-067-688-019	BVTT+3-6
I	87-081-808-019	PW, 1.7-3.5-0.25
J	87-067-178-019	VTT+2.6-3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PCB-B
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PCB-C
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MECHANICAL PARTS LIST (FX－WZ7000)

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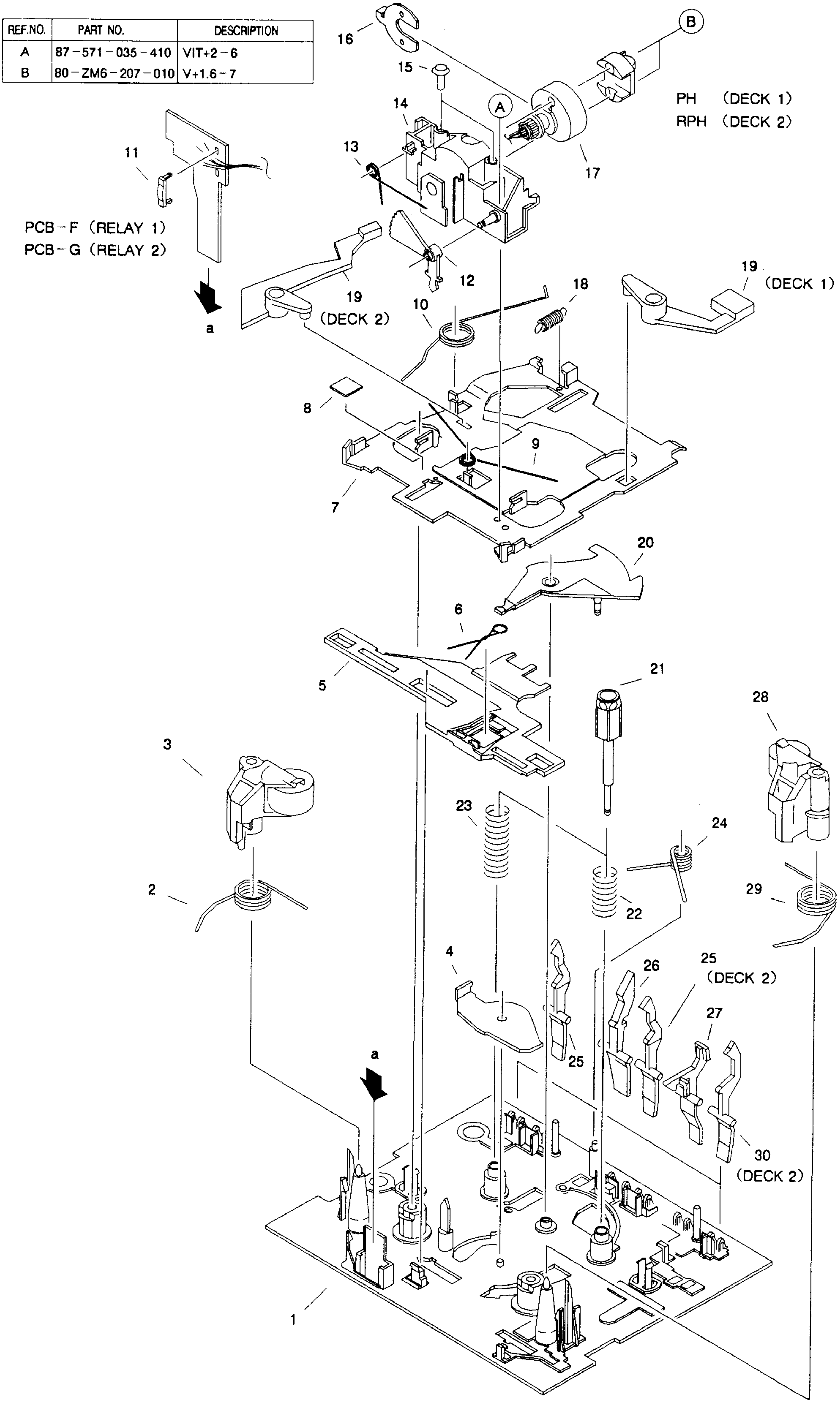
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q,TY
	1-1	★81-VW1-028-018	CAB, STEEL G (Y)	※	1
	1-1	★81-VW1-017-119	CAB, STEEL (YJ)	※	1
	1-2	★89-VT5-202-010	BUSHING, CORD		1
	1-3	★82-VW1-011-119	PANEL, REAR YBNE (Y)	※	1
	1-3	★82-VW1-010-019	PANEL, REAR YJBN (YJ)	※	1
	1-4	★82-VW2-623-019	CORD, FG 9P 750		1
	1-5	---	HLDR, PCB 6.0		2
	1-6	---	CHASSIS, AMP		1
	1-7	★81-VX1-012-019	FOOT, REAR		2
	1-8	★82-VW2-211-019	FELT 20－7.5－2		2
	1-9	★80-CD3-233-010	PLATE, LOCK		2
	1-10	★81-715-234-019	SPR－C, LOCK PLATE 5V		2
	1-11	★82-VW2-201-019	HLDR ASSY, LOCK 1		1
	1-12	★82-VW2-202-010	HLDR ASSY, LOCK 2		1
	1-13	★87-063-143-010	OIL－DMPR 75		2
	1-14	★82-VW2-207-019	HLDR, BOX		1
	1-15	★09-047-743-010	CAB, FR ASSY	※	1
	1-16	★81-MX4-223-019	SPR－P, CASS		4
	1-17	★82-VW1-008-219	BOX, CASS 1 EX	※	1
	1-18	★82-VW2-020-219	BOX, CASS 2 EX		1
	1-19	★81-DS1-011-019	BADGE, AIWA N		1
	1-20	★82-VW2-010-019	WINDOW, CASS 1		1
	1-21	★82-VW2-011-019	WINDOW, CASS 2		1
	1-22	★82-VW2-208-019	SPR－T, EJECT 1		1
	1-23	★82-VW2-209-019	SPR－T, EJECT 2		1
	1-24	★82-VW2-618-119	PLATE, SHLD MECHA		2
	1-25	★82-VW1-005-019	KEY, PLAY	※	1
	1-26	★82-VW1-006-019	KEY, REC	※	1
	1-27	★82-VW1-003-019	KEY, DUBB	※	1
	1-28	★80-MK2-206-010	DMPR, 27－44.5－5.3		2
	1-29	★82-226-274-010	DMPR, 80－60－3 (Y)		1

EXPLODED VIEW – 2 (FX – WZ5000 , FX – WZ7000)

REF.NO.	PART NO.	DESCRIPTION
A	87 – 571 – 035 – 410	VIT+2 – 6
B	80 – ZM6 – 207 – 010	V+1.6 – 7



16
B
15
14
A
PH (DECK 1)
RPH (DECK 2)
17
13
11
PCB – F (RELAY 1)
PCB – G (RELAY 2)
12
19
(DECK 1)
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(DECK 2)
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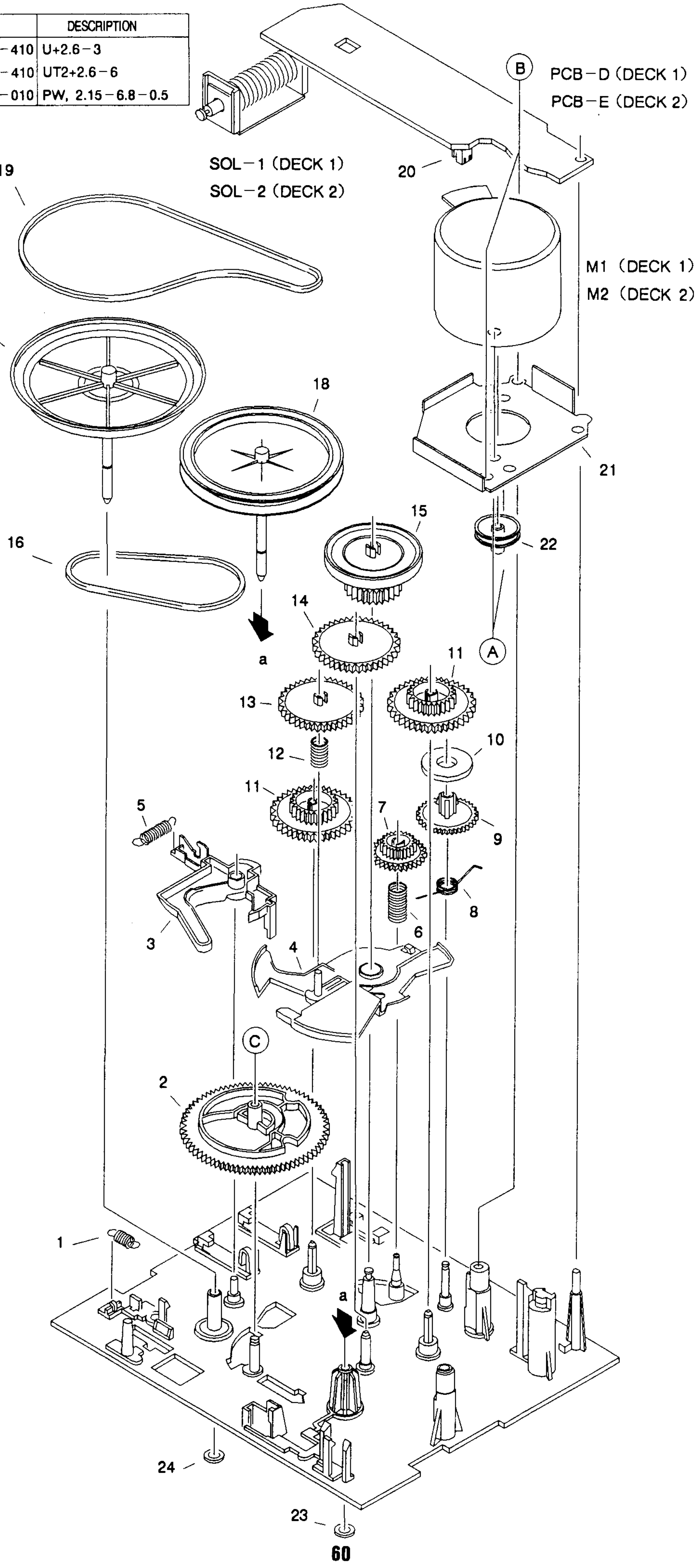
26
25
(DECK 2)
27
25
a
30
(DECK 2)
1

PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q.TY
	2-1	★82-ZM1-201-010	CHAS ASSY, MECH	※	1
	2-2	★82-ZM1-258-010	SPR－T, PINCH L	※	1
	2-3	★82-ZM1-248-110	LVR ASSY, PINCH L	※	1
	2-4	★82-ZM1-295-010	PLATE ASSY, LINK	※	1
	2-5	★82-ZM1-266-010	LVR, DIR	※	1
	2-6	★82-ZM1-214-010	SPR－T, DIR	※	1
	2-7	★82-ZM1-206-010	CHAS, HEAD	※	1
	2-8	★87-078-014-010	SH, 5－5－0.05		1
	2-9	★82-ZM1-269-010	SPR－T, BRG	※	1
	2-10	★82-ZM1-219-010	SPR－T, LINK	※	1
	2-11	---	HLDR WIRE 2		1
	2-12	★82-ZM1-210-010	GEAR, H T	※	1
	2-13	★82-ZM1-213-010	SPR－T, HEAD	※	1
	2-14	★82-ZM1-207-010	GUIDE, TAPE	※	1
	2-15	★82-ZM1-283-010	S－SCREW, AZIMUTH	※	2
	2-16	★82-ZM1-209-010	PLATE, HEAD	※	1
	2-17	★82-ZM1-208-010	HLDR, HEAD	※	1
	2-18	★82-ZM1-218-010	SPR－E, HB	※	1
	2-19	★82-ZM1-264-010	LVR, EJECT R (DECK 1)	※	1
	2-19	★82-ZM1-263-010	LVR, EJECT L (DECK 2)	※	1
	2-20	★82-ZM1-222-010	LVR, PLAY	※	1
	2-21	★82-ZM1-217-010	REEL TABLE	※	2
	2-22	★82-ZM1-244-010	SPR－C, BT	※	1
	2-23	★82-ZM1-285-010	SPR－C, BT L	※	1
	2-24	★82-ZM1-257-010	SPR－T, CAS	※	1
	2-25	★82-ZM1-241-010	LVR, MC (DECK 1)	※	1
			(DECK 2)	※	2
	2-26	★82-ZM1-242-010	LVR, CAS	※	1
	2-27	★82-ZM1-243-010	LVR, STOP	※	1
	2-28	★82-ZM1-253-110	LVR ASSY, PINCH R	※	1
	2-29	★82-ZM1-259-010	SPR－T, PINCH R	※	1
	2-30	★82-ZM1-240-010	LVR, REC (DECK 2)	※	2

EXPLODED VIEW – 3 (FX – WZ5000, FX – WZ7000)

REF.NO.	PART NO.	DESCRIPTION
A	87-251-070-410	U+2.6-3
B	87-741-073-410	UT2+2.6-6
C	87-067-932-010	PW, 2.15-6.8-0.5


B
PCB-D (DECK 1)
PCB-E (DECK 2)
SOL-1 (DECK 1)
SOL-2 (DECK 2)
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M1 (DECK 1)
M2 (DECK 2)
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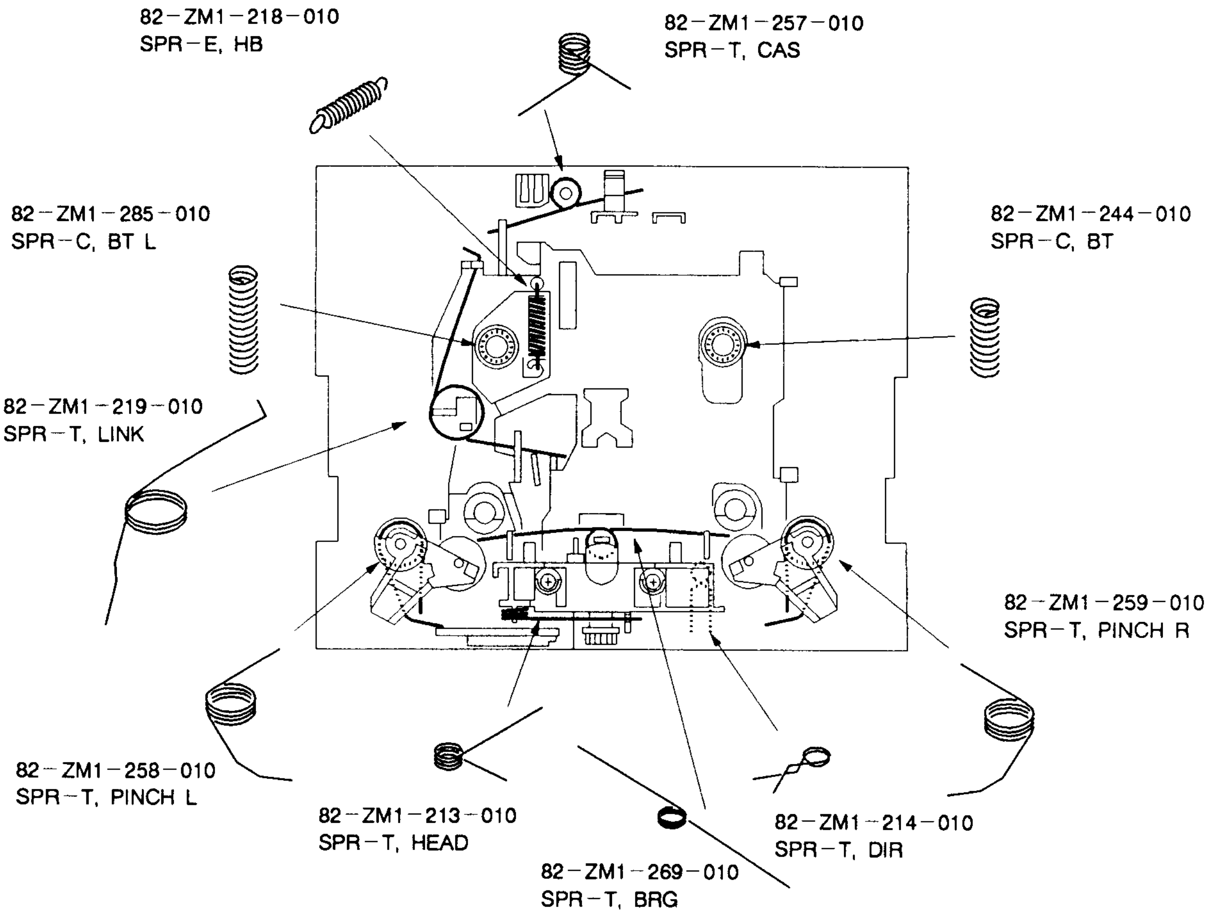
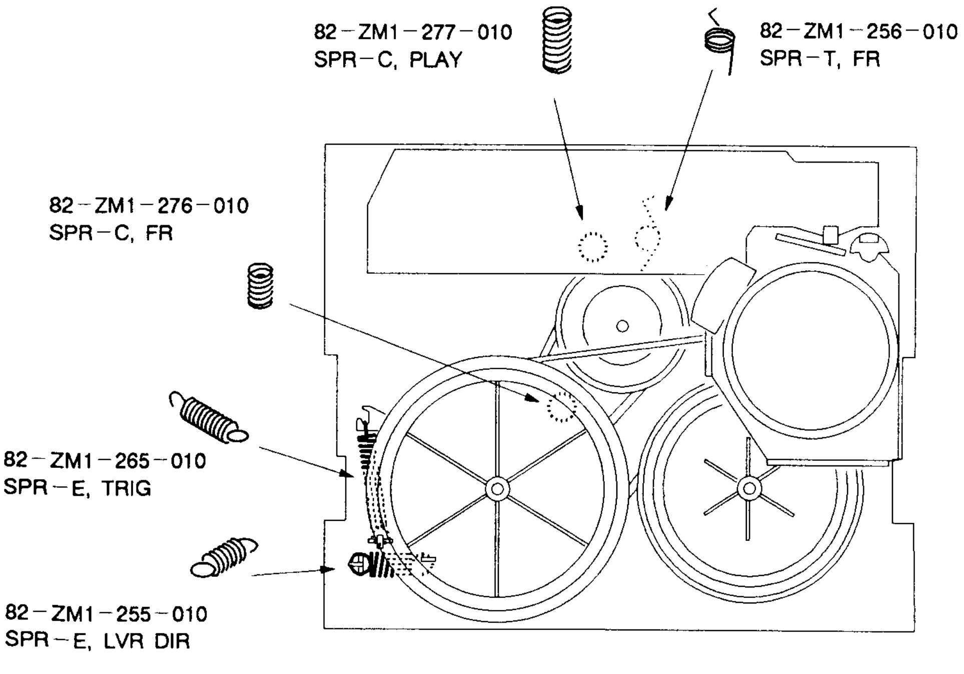
PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q,TY
	3-1	★82-ZM1-255-010	SPR – E, LVR DIR	※	1
	3-2	★82-ZM1-221-010	GEAR, CAM	※	1
	3-3	★82-ZM1-227-010	LVR, TRIG	※	1
	3-4	★82-ZM1-224-010	LVR, FR	※	1
	3-5	★82-ZM1-265-010	SPR – E, TRIG	※	1
	3-6	★82-ZM1-277-010	SPR – C, PLAY	※	1
	3-7	★82-ZM1-223-010	GEAR, PLAY	※	1
	3-8	★82-ZM1-256-010	SPR – T, FR	※	1
	3-9	★82-ZM1-220-010	GEAR, IDLER	※	1
	3-10	★80-ZM6-217-010	RING MAGNET 2		1
	3-11	★82-ZM1-216-010	GEAR, REEL	※	2
	3-12	★82-ZM1-276-010	SPR – C, FR	※	1
	3-13	★82-ZM1-225-010	GEAR, FR	※	1
	3-14	★82-ZM1-226-010	GEAR, REW	※	1
	3-15	★82-ZM1-228-010	SLIP DISK ASSY	※	1
	3-16	★82-ZM1-261-010	BELT, FR	※	1
	3-17	82-ZM1-237-010	FLY – WHL ASSY, R	※	1
	3-18	82-ZM1-234-010	FLY – WHL ASSY, L	※	1
	3-19	★82-ZM1-260-010	BELT, MAIN	※	1
	3-20	★82-ZM1-245-010	HLDR, IC	※	1
	3-21	★82-ZM1-246-010	HLDR, MOTOR	※	1
	3-22	★82-ZM1-247-010	PULLEY, MOTOR	※	1
	3-23	★82-ZM1-288-010	SH, 1.63 – 3.2 – 0.5 SLT	※	1
	3-24	★80-ZM6-243-010	SH, 1.75 – 3.6 – 0.5 SLT		1

SPRING APPLICATION POSITION (FX – WZ5000, FX – WZ7000)


82–ZM1–218–010
SPR–E, HB
82–ZM1–257–010
SPR–T, CAS
82–ZM1–285–010
SPR–C, BT L
82–ZM1–244–010
SPR–C, BT
82–ZM1–219–010
SPR–T, LINK
82–ZM1–259–010
SPR–T, PINCH R
82–ZM1–258–010
SPR–T, PINCH L
82–ZM1–213–010
SPR–T, HEAD
82–ZM1–214–010
SPR–T, DIR
82–ZM1–269–010
SPR–T, BRG


82–ZM1–277–010
SPR–C, PLAY
82–ZM1–256–010
SPR–T, FR
82–ZM1–276–010
SPR–C, FR
82–ZM1–265–010
SPR–E, TRIG
82–ZM1–255–010
SPR–E, LVR DIR

MODEL NO.

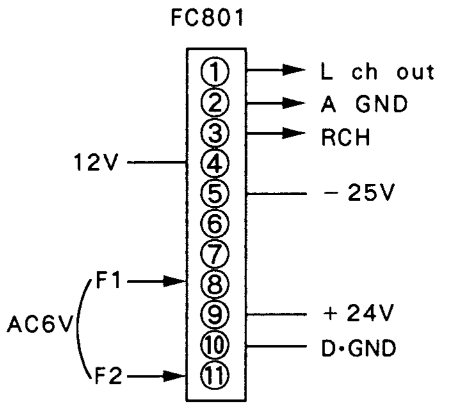
TX－Z7000

CAUTIONS WHEN SERVICING (TX－Z7000)

Model TX－Z7000 does no have a power supply circuit. Power is supplied to it through a 11－pin flat cable and the signal inputs／outputs are also perfomed througf this cable.
When servicing the TX－Z7000 connect it to the MX－Z5000M so that power is supplied to the TX－Z7000.
If the MX－Z5000M is not available, follow the procedure below.

[When servicing the unassembled TX－Z7000]

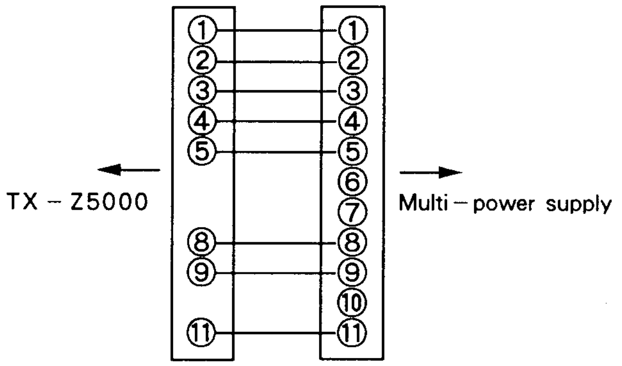
①Supply the following voltages to each terminal from an external power supply.



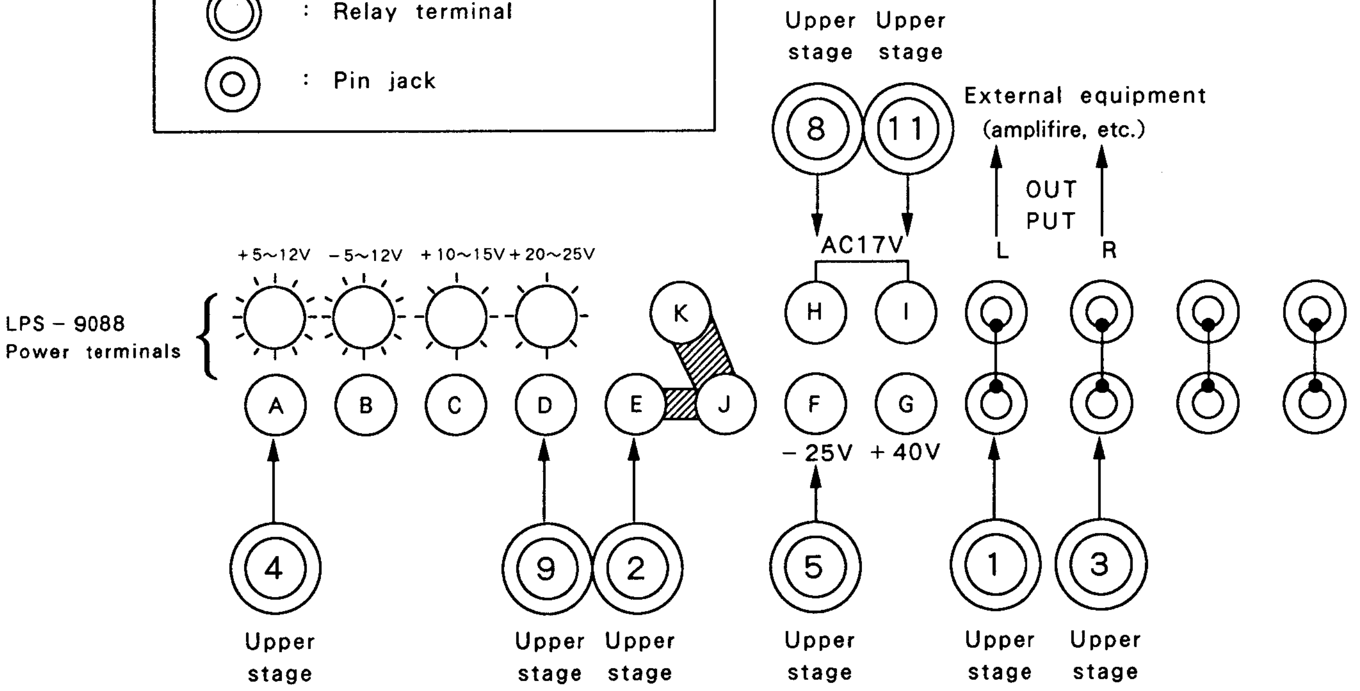
② Connection diagram when using multi power supply (LPS－9088).

- Turn the TX－Z5000 on using the SLEEP function since the POWER SW is not supplied.
- Connect the multi－conversion harness for the X5 type (modeified harness for F550) to J1.

Connection diagram of multi－conversion harness



▨ : Short bar
←→ : Jumper cable
●→ : Ground cable of pin plug
○ : Power output terminal
◎ : Relay terminal
⊙ : Pin jack



ELECTRICAL MAIN PARTS LIST (TX－Z7000)

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
IC			
	87-001-376-010		IC, LC7218
	87-001-942-010		IC, LA1265S(G)
	87-020-446-010		IC, TA7343AP
	81-VT1-610-010		IC, UPD75268CW-029
TRANSISTOR			
	89-502-094-080		C-FET, 2SK209Y
	89-502-115-080		C-FET, 2SK211GR〈YE, YZ〉
	89-503-025-080		C-FET, 2SK302GR
	89-327-143-080		C-TR, 2SC2714(0)
	89-316-235-080		C-TR, 2SC1623J5
	89-327-125-080		C-TR, 2SC2712GR
	89-333-266-080		C-TR, 2SC3326B
	87-026-230-080		C-TR, DTA114YK
	89-110-485-080		TR, 2SA1048GR
	89-318-155-080		TR, 2SC1815GR
	89-320-011-080		TR, 2SC2001K
	89-324-585-080		TR, 2SC2458GR
	87-026-214-080		TR, DTA114YS
DIODE			
	87-020-125-080		C-DIODE, 1SS181
	87-020-027-080		C-DIODE, 1SS184
	87-026-360-080		C-VARICAP, KV1430〈YLH, YH, YZ〉
	87-026-360-010		C-VARICAP, KV1430〈YE〉
	87-020-583-080		C-ZENER, 02CZ5. 1Y
	87-020-585-080		C-ZENER, 02CZ6. 2Y
	87-020-110-080		DIODE, 1SS177
	81-754-634-090		VARI-CAP, KV1260〈YE, YZ〉
	87-027-449-080		ZENER, HZ15-3L
	87-017-172-080		ZENER, HZS11A1L
MAIN C. B			
	81-MT3-655-010		AM PACK 1, S〈YLH, YH〉
	81-689-212-010		PLATE, EARTH
C1	87-010-312-080		C-CAP, S 15P-50 CH
C2	87-015-819-080		C-CAP, 0. 01
C3	87-010-197-080		C-CAP, S 0. 01-25 B
C4	87-010-197-080		C-CAP, S 0. 01-25 B
C5	87-010-197-080		C-CAP, S 0. 01-25 B
C6	87-010-197-080		C-CAP, S 0. 01-25 B
C7	87-010-147-080		C-CAP, S 3P-50 CH〈YZ〉
C7	87-010-150-080		C-CAP, S 6P-50 CH〈YLH, YH, YE〉
C8	87-018-102-080		CAP, TC-U 6. 8P-50 SL〈YLH, YH, YE〉
C9	87-010-158-080		C-CAP, S 22P-50 SL
C10	87-010-154-080		C-CAP, S 10P-50 CH
C11	87-010-312-080		C-CAP, S 15P-50 CH
C12	87-010-312-080		C-CAP, S 15P-50 CH
C13	87-010-197-080		C-CAP, S 0. 01-25 B
C14	87-010-146-080		C-CAP, S 2P-50 CH
C15	87-010-145-080		C-CAP, S 1P-50 CH〈YLH, YH, YE〉
C15	87-010-148-080		C-CAP, S 4P-50 CH〈YZ〉
C16	87-010-154-080		C-CAP, S 10P-50 CH〈YLH, YH, YE〉
C16	87-010-149-080		C-CAP, S 5P-50 CH〈YZ〉
C17	87-010-197-080		C-CAP, S 0. 01-25 B
C18	87-010-170-080		C-CAP, S 220P-50 SL
C19	87-010-197-080		C-CAP, S 0. 01-25 B
C20	87-010-197-080		C-CAP, S 0. 01-25 B
C21	87-010-197-080		C-CAP, S 0. 01-25 B
C22	87-010-400-080		CAP, E 0. 47-50 SME
C23	87-010-197-080		C-CAP, S 0. 01-25 B
C24	87-010-149-080		C-CAP, S 5P-50 CH
C25	87-010-197-080		C-CAP, S 0. 01-25 B〈YLH, YH, YE〉
C26	87-010-312-080		C-CAP, S 15P-50 CH
C27	87-010-197-080		C-CAP, S 0. 01-25 B
C30	87-010-401-080		CAP, E 1-50 SME
C31	87-010-197-080		C-CAP, S 0. 01-25 B
C32	87-010-197-080		C-CAP, S 0. 01-25 B
C33	87-010-405-080		CAP, E 10-50 SME
C34	87-010-166-080		C-CAP, S 100P-50 SL
C35	87-010-197-080		C-CAP, S 0. 01-25 B
C36	87-010-401-080		CAP, E 1-50 SME
C37	87-010-404-080		CAP, E 4. 7-50 SME
C38	87-010-405-080		CAP, E 10-50 SME
C39	87-010-544-080		CAP, E 0. 1-50
C40	87-010-403-080		CAP, E 3. 3-50 SME
C41	87-010-404-080		CAP, E 4. 7-50 SME
C42	87-010-404-080		CAP, E 4. 7-50 SME〈YZ〉
C43	87-010-197-080		C-CAP, S 0. 01-25 B
C45	87-010-404-080		CAP, E 4. 7-50 SME
C46	87-010-197-080		C-CAP, S 0. 01-25 B
C47	87-010-197-080		C-CAP, S 0. 01-25 B
C48	87-010-197-080		C-CAP, S 0. 01-25 B
C49	87-010-197-080		C-CAP, S 0. 01-25 B
C50	87-010-197-080		C-CAP, S 0. 01-25 B
C51	87-010-197-080		C-CAP, S 0. 01-25 B
C52	87-010-197-080		C-CAP, S 0. 01-25 B〈YE, YZ〉
C53	87-010-196-080		C-CAP, S 0. 1-25 F
C54	87-010-197-080		C-CAP, S 0. 01-25 B〈YE, YZ〉
C55	87-014-049-080		CAP, PP 470P-100 J〈YE, YZ〉
C56	87-010-158-080		C-CAP, S 22P-50 SL〈YE, YZ〉
C56	87-010-152-080		C-CAP, S 8P-50 CH〈YLH, YH〉
C57	87-010-169-080		C-CAP, S 180P-50 SL〈YE, YZ〉
C58	87-014-050-080		CAP, PP 510P-100 J〈YE, YZ〉
C60	87-010-404-080		CAP, E 4. 7-50 SME〈YZ〉
C61	87-010-401-080		CAP, E 1-50 SME
C62	87-010-403-080		CAP, E 3. 3-50 SME
C63	87-014-057-080		CAP, PP 1000P-100 J
C64	87-010-405-080		CAP, E 10-50 SME
C67	87-010-220-080		C-CAP, S 0. 018-25 B
C68	87-010-220-080		C-CAP, S 0. 018-25 B
C69	87-010-404-080		CAP, E 4. 7-50 SME
C70	87-010-404-080		CAP, E 4. 7-50 SME
C73	87-010-404-080		CAP, E 4. 7-50 SME
C74	87-010-404-080		CAP, E 4. 7-50 SME
C75	87-010-248-080		CAP, E 220-10 SME
C76	87-010-312-080		C-CAP, S 15P-50 CH
C77	87-010-197-080		C-CAP, S 0. 01-25 B
C78	87-010-197-080		C-CAP, S 0. 01-25 B
C79	87-010-197-080		C-CAP, S 0. 01-25 B
C80	87-010-384-080		CAP, E 100-25 SME
C81	87-010-186-080		C-CAP, S 4700P-50 B
C82	87-010-400-080		CAP, E 0. 47-50 SME
C83	87-015-762-080		C-CAP, 68P SL
C84	87-010-164-080		C-CAP, S 68P-50 SL
C85	87-010-164-080		C-CAP, S 68P-50 SL
C86	87-018-134-080		CAP, TC-U 0. 01-16 Y
C87	87-010-263-080		CAP, E 100-10〈YLH, YH, YE〉
C87	87-010-404-080		CAP, E 4. 7-50 SME〈YZ〉
C88	87-010-381-080		CAP, E 330-16 SME
C100	87-010-197-080		C-CAP, S 0. 01-25 B
C101	87-010-197-080		C-CAP, S 0. 01-25 B
C102	87-010-311-080		C-CAP, S 12P-50 CH〈YE, YZ〉
C103	87-010-197-080		C-CAP, S 0. 01-25 B〈YE〉
C103	87-010-311-080		C-CAP, S 12P-50 CH〈YZ〉
C104	87-010-197-080		C-CAP, S 0. 01-25 B〈YZ〉
C106	87-010-145-080		C-CAP, S 1P-50 CH〈YZ〉
C110	87-010-263-080		CAP, E 100-10
C111	87-010-405-080		CAP, E 10-50 SME
C112	87-010-401-080		CAP, E 1-50 SME
C781	87-010-197-080		C-CAP, S 0. 01-25 B
CF1	87-030-105-010		FLTR, BPMB6A〈YZ〉
CF2	82-799-621-010		FLTR, SFE10. 7MS2-A〈YZ〉
CF2	87-008-261-010		FLTR, SFE10. 7MA5-A〈YLH, YH, YE〉
CF3	87-008-261-010		FLTR, SFE10. 7MA5-A〈YZ〉
CF4	87-008-261-010		FLTR, SFE10. 7MA5-A

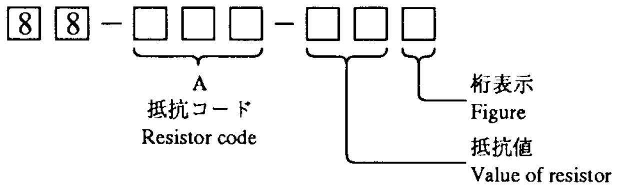
REF. NO	PART NO.	カンリ NO.	DESCRIPTION
CF5	82-794-670-010		BFU450C4N
J1	81-653-648-010		ANT TERM EARTH PAL〈YE, YZ〉
J1	81-653-638-110		ANT TERMINAL EARTH〈YLH, YH〉
J1	81-631-646-010		ANT TERM 2P PAL〈YE, YZ〉
J1	87-033-214-010		ANT TERM 4P(JT)〈YLH, YH〉
J2	81-754-629-010		CONNECTOR XH M 2P (UL)〈YE〉
L1	87-006-209-010		COIL, ANT FM 3/4 T
L2	87-006-210-010		COIL, ANT FM 2 3/4T
L3	87-006-200-010		COIL, RF FM 3-1/2T, L5
L4	87-006-201-010		COIL, RF FM3-1/2TS, L5
L5	87-006-201-010		COIL, RF FM3-1/2TS, L5〈YZ〉
L6	87-006-205-010		COIL, OSC FM(7K)
L7	87-003-231-080		C-COIL, S1UH
L8	87-008-427-010		COIL, FMIFT(4T)
L9	81-631-611-010		COIL, QUAD(SINGLE)
L11	87-008-452-010		FILTER, CFAZ-450
L12	87-006-207-010		COIL, ANT MW (3B)〈YE, YZ〉
L13	87-006-208-010		COIL, ANT LW〈YE, YZ〉
L14	82-794-687-010		COIL, OSC〈YE, YZ〉
L15	87-008-461-010		COIL, 2POLE MPX
L16	87-008-461-010		COIL, 2POLE MPX
L17	82-794-688-010		COIL, OSC LW〈YE, YZ〉
L18	87-008-421-010		COIL, FILTER AMTI-BIRDIE〈YZ〉
L19	87-003-098-080		COIL, 2. 2UH
SFR1	87-024-174-080		SFR, 33K DIA6 V
SFR2	87-024-171-080		SFR, 4. 7K DIA6 V
TC1	87-011-219-080		CAP, TRIMMER 10P VCT
TC2	87-011-219-080		CAP, TRIMMER 10P VCT
TC3	87-011-219-080		CAP, TRIMMER 10P VCT〈YZ〉
TC4	87-011-220-080		CAP, TRIMMER 20P VCT〈YE, YZ〉
TC5	87-011-221-080		TRIMMER. 30P VCT51
TC6	87-011-221-080		TRIMMER. 30P VCT51〈YE, YZ〉
WH802	82-VT1-605-010		CORD, FG 11P
X1	87-030-163-010		VIB, XTAL 7. 2MHZ(NDK)

FRONT C. B

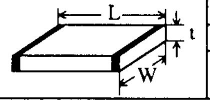
REF. NO	PART NO.	カンリ NO.	DESCRIPTION
C901	87-018-131-080		CAP, TC-U 1000P-50 B
C902	87-010-553-080		CAP, E 47-16
C903	87-010-498-080		CAP, E 10-16 5L
C904	87-010-494-080		CAP, E GAS 1/50
C905	87-018-131-080		CAP, TC-U 1000P-50 B
C906	87-010-497-080		CAP, E 4. 7-35 5L
C907	87-010-494-080		CAP, E GAS 1/50
C908	87-010-494-080		CAP, E GAS 1/50
C909	87-018-134-080		CAP, TC-U 0. 01-16 Y
C910	87-010-252-080		CAP, E(TAPG) 1000-6. 3V
C911	87-018-209-080		CAP, TC-U 0. 1-50 F
C912	87-018-209-080		CAP, TC-U 0. 1-50 F
C913	87-018-209-080		CAP, TC-U 0. 1-50 F
C915	87-010-381-080		CAP, E 330-16 SME
C916	87-010-381-080		CAP, E 330-16 SME
CF901	87-008-394-080		CF CST 4. 19 MGW
FL901	80-VT1-608-010		FL, 9BT-83GK
L901	87-003-102-080		COIL, 10UH
L902	87-003-102-080		COIL, 10UH
L903	87-003-102-080		COIL, 10UH
L904	87-003-102-080		COIL, 10UH
RU901	87-002-669-010		IC, GP1U571X
SW901	87-036-215-080		SW, TACT EVQ21404M〈YLH, YH〉
SW901	87-036-259-080		SW, TACT SKHVBB〈YE, YZ〉
SW902	87-036-215-080		SW, TACT EVQ21404M〈YLH, YH〉
SW902	87-036-259-080		SW, TACT SKHVBB〈YE, YZ〉
SW903	87-036-215-080		SW, TACT EVQ21404M〈YLH, YH〉
SW903	87-036-259-080		SW, TACT SKHVBB〈YE, YZ〉
SW904	87-036-215-080		SW, TACT EVQ21404M〈YLH, YH〉
SW904	87-036-259-080		SW, TACT SKHVBB〈YE, YZ〉
SW905	87-036-215-080		SW, TACT EVQ21404M〈YLH, YH〉
SW905	87-036-259-080		SW, TACT SKHVBB〈YE, YZ〉
SW906	87-036-215-080		SW, TACT EVQ21404M〈YLH, YH〉
SW906	87-036-259-080		SW, TACT SKHVBB〈YE, YZ〉
SW907	87-036-215-080		SW, TACT EVQ21404M〈YLH, YH〉
SW907	87-036-259-080		SW, TACT SKHVBB〈YE, YZ〉
SW908	87-036-215-080		SW, TACT EVQ21404M〈YLH, YH〉
SW908	87-036-259-080		SW, TACT SKHVBB〈YE, YZ〉
SW909	87-036-215-080		SW, TACT EVQ21404M〈YLH, YH〉
SW909	87-036-259-080		SW, TACT SKHVBB〈YE, YZ〉
SW910	87-036-215-080		SW, TACT EVQ21404M〈YLH, YH〉
SW910	87-036-259-080		SW, TACT SKHVBB〈YE, YZ〉
SW911	87-036-215-080		SW, TACT EVQ21404M〈YLH, YH〉
SW911	87-036-259-080		SW, TACT SKHVBB〈YE, YZ〉
SW912	87-036-215-080		SW, TACT EVQ21404M〈YLH, YH〉
SW912	87-036-259-080		SW, TACT SKHVBB〈YE, YZ〉
SW913	87-036-215-080		SW, TACT EVQ21404M〈YLH, YH〉
SW913	87-036-259-080		SW, TACT SKHVBB〈YE, YZ〉
SW914	87-036-215-080		SW, TACT EVQ21404M〈YLH, YH〉
SW914	87-036-259-080		SW, TACT SKHVBB〈YE, YZ〉
SW915	87-036-215-080		SW, TACT EVQ21404M〈YLH, YH〉
SW915	87-036-259-080		SW, TACT SKHVBB〈YE, YZ〉
SW916	87-036-215-080		SW, TACT EVQ21404M〈YLH, YH〉
SW916	87-036-259-080		SW, TACT SKHVBB〈YE, YZ〉
SW917	87-036-215-080		SW, TACT EVQ21404M〈YLH, YH〉
SW917	87-036-259-080		SW, TACT SKHVBB〈YE, YZ〉
SW918	87-036-215-080		SW, TACT EVQ21404M〈YLH, YH〉
SW918	87-036-259-080		SW, TACT SKHVBB〈YE, YZ〉

○チップ抵抗部品コード／CHIP RESISTOR PART CODE

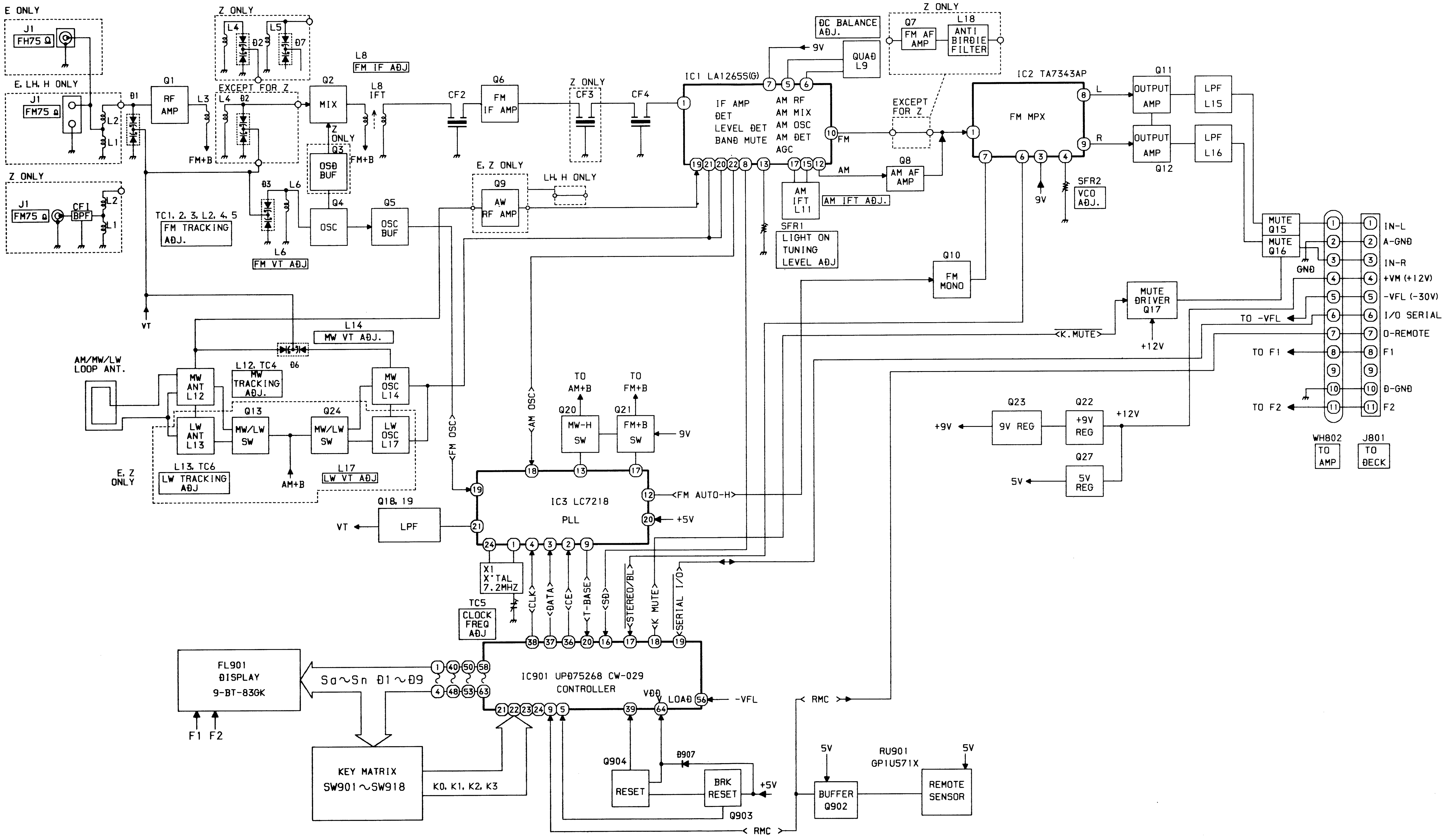
チップ抵抗部品コードの成り立ち
Chip resistor part coding



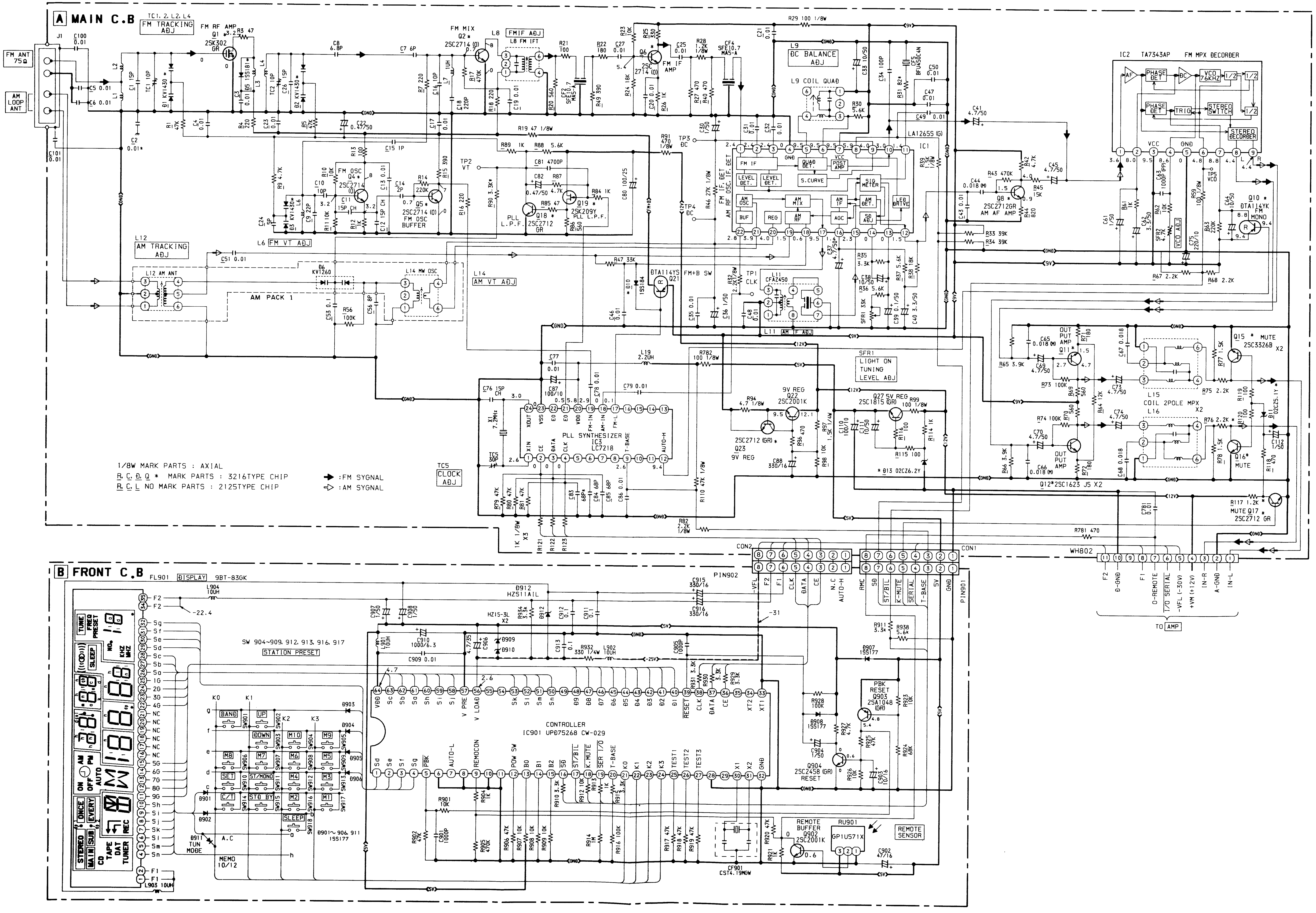
チップ抵抗
Chip resistor

Wattage 容量	Type 種類	Tolerance 許容誤差	Symbol 記号	Dimensions／寸法 (mm)				Resistor code : A 抵抗コード : A
				Form/外形	L	W	t	
1/32W	1608	±5%	CJ		1.6	0.8	0.35	108
1/10W	2125	±5%	CJ		2	1.25	1.45	118
1/8W	3216	±5%	CJ		3.2	1.6	0.5 ~0.7	128

BLOCK DIAGRAM (TX – Z7000)

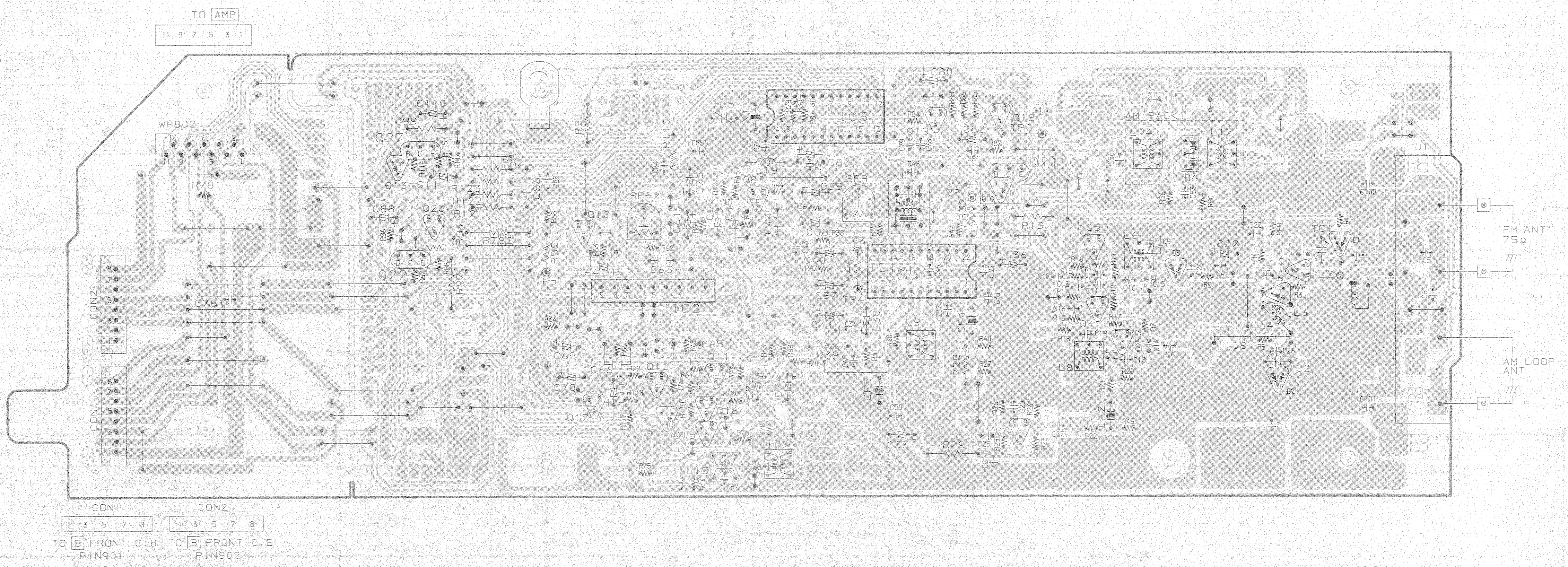

E ONLY
J1
FM75 Ω
E, LH, H ONLY
Z ONLY
CF1
BPF
L1
L2
D1
Q1
RF AMP
L3
FM+B
Z ONLY
L4
D2
L5
D7
EXCEPT FOR Z
Q2
MIX
Z ONLY
Q3
OSD BUF
FM+B
L8
FM IF ADJ
L8
IFT
CF2
Q6
FM IF AMP
Z ONLY
CF3
CF4
TC1, 2, 3, L2, 4, 5
FM TRACKING ADJ.
D3
L6
Q4
OSC
L6
FM VT ADJ
Q5
OSC BUF
E, Z ONLY
Q9
AM RF AMP
LH, H ONLY
DC BALANCE ADJ.
9V
QUAD
L9
IC1 LA1265S(G)
IF AMP
DET
LEVEL DET
BAND MUTE
AM RF
AM MIX
AM OSC
AM DET
AGC
FM
AM
AM IFT
L11
AM IFT ADJ.
SFR1
LIGHT ON TUNING LEVEL ADJ
Z ONLY
Q7
FM AF AMP
L18
ANTI BIRDIE FILTER
EXCEPT FOR Z
Q8
AM AF AMP
IC2 TA7343AP
FM MPX
9V
SFR2
VCO ADJ.
Q11
OUTPUT AMP
Q12
LPF L15
LPF L16
L
R
Q10
FM MONO
MUTE Q15
MUTE Q16
GND
MUTE DRIVER Q17
+12V
TO -VFL
<K.MUTE>
TO F1
TO F2
IN-L
A-GND
IN-R
+VM (+12V)
-VFL (-30V)
I/O SERIAL
D-REMOTE
F1
D-GND
F2
WH802
TO AMP
J801
TO DECK
VT
L14
MW VT ADJ.
D6
AM/MW/LW LOOP ANT.
MW ANT L12
L12, TC4
MW TRACKING ADJ.
MW OSC L14
Q13
Q24
LW ANT L13
MW/LW SW
MW/LW SW
LW OSC L17
L13, TC6
LW TRACKING ADJ
AM+B
L17
LW VT ADJ
E, Z ONLY
<FM OSC>
<AM OSC>
TO AM+B
TO FM+B
Q20
MW-H SW
Q21
FM+B SW
9V
IC3 LC7218
PLL
<FM AUTO-H>
+5V
Q18, 19
LPF
VT
X1
X'TAL
7.2MHZ
TC5
CLOCK FREQ ADJ
<CLK>
<DATA>
<CE>
<T-BASE>
<SD>
<STEREO/BL>
<K MUTE>
<SERIAL I/O>
Q23
9V REG
Q22
+9V REG
+12V
+9V
Q27
5V REG
5V
FL901
DISPLAY
9-BT-83GK
F1 F2
Sa~Sn D1~D9
IC901 UPD75268 CW-029
CONTROLLER
VDD
LOAD
-VFL
< RMC >
KEY MATRIX
SW901~SW918
K0, K1, K2, K3
Q904
RESET
D907
BRK RESET
Q903
+5V
< RMC >
5V
BUFFER Q902
RU901
GP1U571X
5V
REMOTE SENSOR

SCHEMATIC DIAGRAM – 1 (TX – Z7000H)

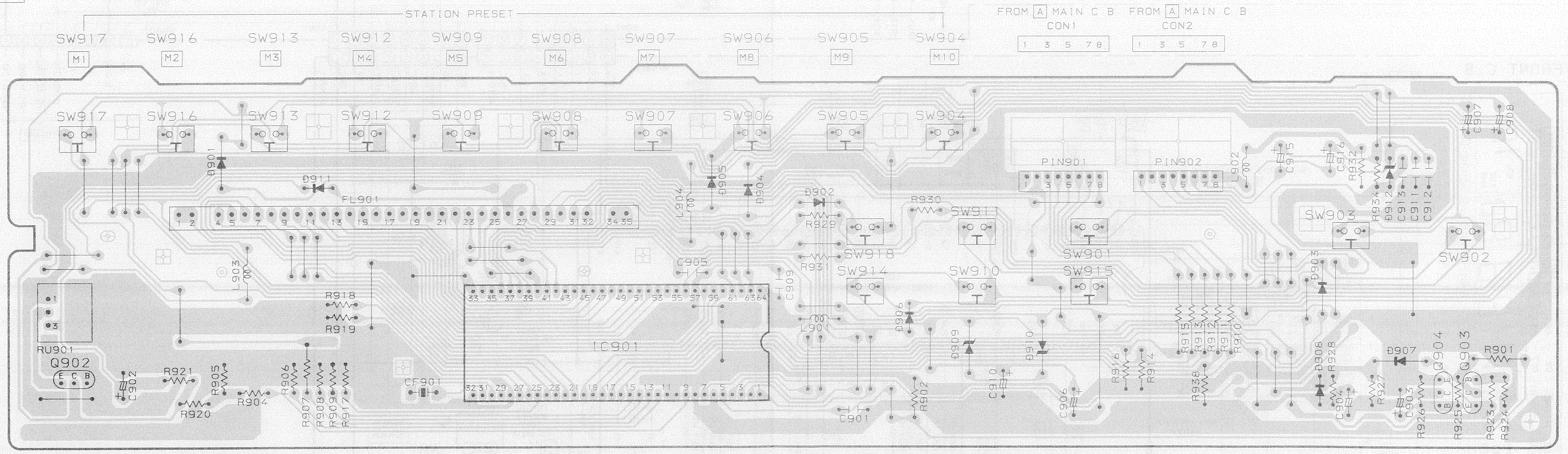

A MAIN C.B
FM ANT 75Ω
AM LOOP ANT
FM TRACKING ADJ
FM RF AMP
FM MIX
FMIF ADJ
FM IF AMP
DC BALANCE ADJ
L9 COIL QUAD
IC2 TA7343AP FM MPX DECORDER
PHASE DET
VCO 76KHZ
TRIG
STEREO SWITCH
STEREO DECORDER
LA1265S (G) IC1
FM OSC
FM OSC BUFFER
PLL L.P.F.
AM TRACKING ADJ
FM VT ADJ
AM VT ADJ
L12 AM ANT
L14 MW OSC
AM PACK 1
AM AF AMP
FM MONO
FM+B SW
L11 AM IF ADJ
SFR1 LIGHT ON TUNING LEVEL ADJ
9V REG
Q27 5V REG
PLL SYNTHESIZER IC3 LC7218
TC5 CLOCK ADJ
OUT PUT AMP
COIL 2POLE MPX
MUTE
1/8W MARK PARTS : AXIAL
R, C, D, Q * MARK PARTS : 3216TYPE CHIP
R, C, L NO MARK PARTS : 2125TYPE CHIP
➡ :FM SYGNAL
⇨ :AM SYGNAL
CON2
CON1
WH802
TO AMP
B FRONT C.B
FL901 DISPLAY 9BT-83GK
PIN902
PIN901
SW 904~909, 912, 913, 916, 917 STATION PRESET
CONTROLLER IC901 UPD75268 CW-029
PBK RESET Q903 2SA1048 (GR)
Q904 2SC2458 (GR) RESET
REMOTE BUFFER Q902 2SC2001K
RU901 GP1U571X
REMOTE SENSOR
CF901 CST4.19MGW
D911 TUN MODE
MEMO 10/12

WIRING – 1 (TX – Z7000H)

A MAIN C.B


TO AMP
11 9 7 5 3 1
WH802
CON1
CON2
1 3 5 7 8
TO B FRONT C.B PIN901
TO B FRONT C.B PIN902
IC1
IC2
IC3
AM PACK
FM ANT 75Ω
AM LOOP ANT
J1
TC1
TC2
TC5
SFR1
SFR2
TP1
TP2
TP3
TP4
TP5
Q27
Q22
Q23
C781
R781
R782

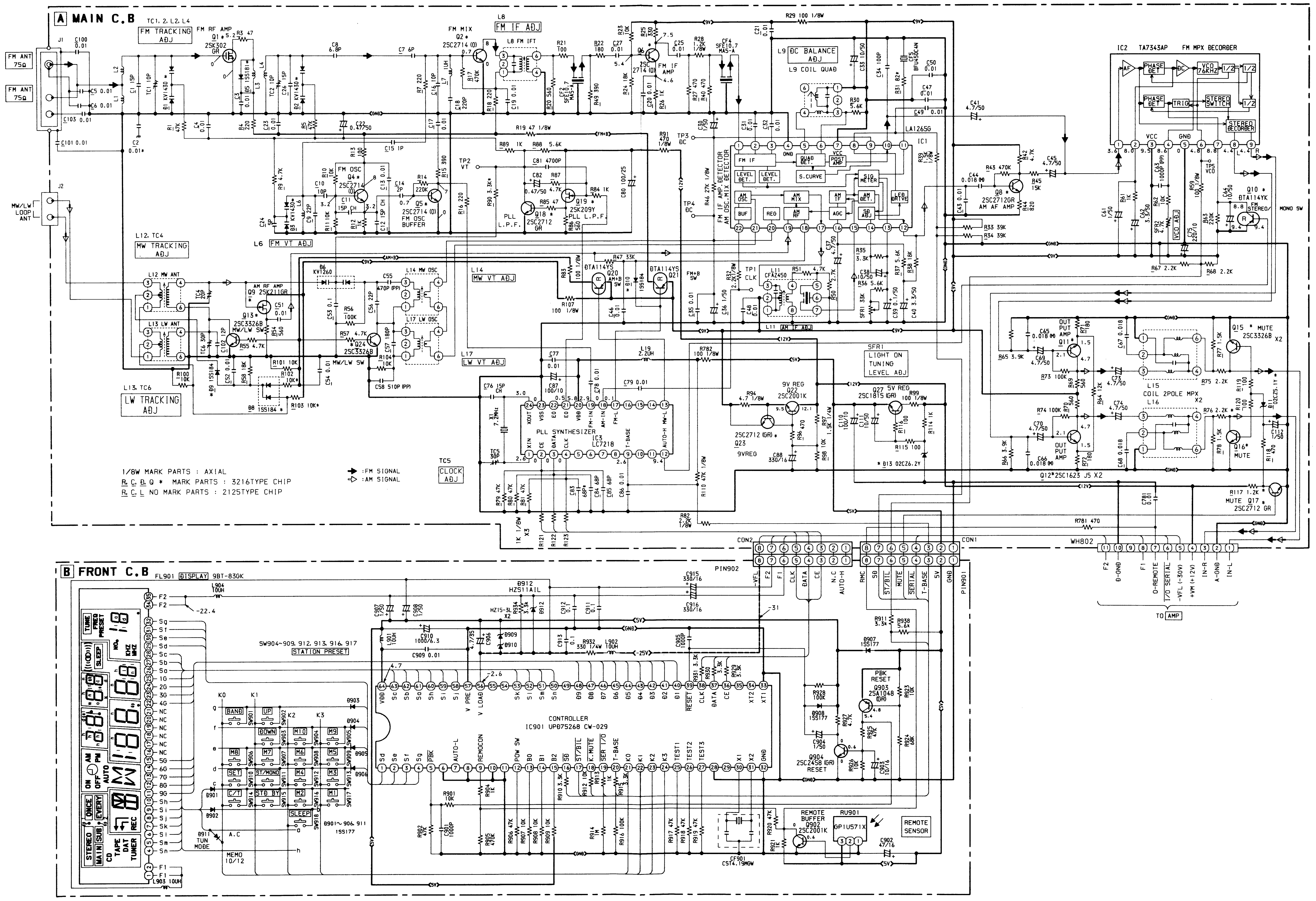
B FRONT C.B


STATION PRESET
SW917 M1
SW916 M2
SW913 M3
SW912 M4
SW909 M5
SW908 M6
SW907 M7
SW906 M8
SW905 M9
SW904 M10
FROM A MAIN C.B CON1
FROM A MAIN C.B CON2
1 3 5 7 8
PIN901
PIN902
FL901
IC901
RU901
Q902
Q903
Q904
CF901
FL901 DISPLAY
SW918 SLEEP
SW911 ST/MONO
SW901 BAND
SW914 CLOCK/TIMER
SW910 SET
SW915 STANDBY
SW903 DOWN ▼
SW902 UP ▲
TUNING/TIMER

GRAPHIC SYMBOLS PRINTED CIRCUIT BOARD OF ELECT. CAP. ARE DESIGNED AS NEGATIVE POLE.

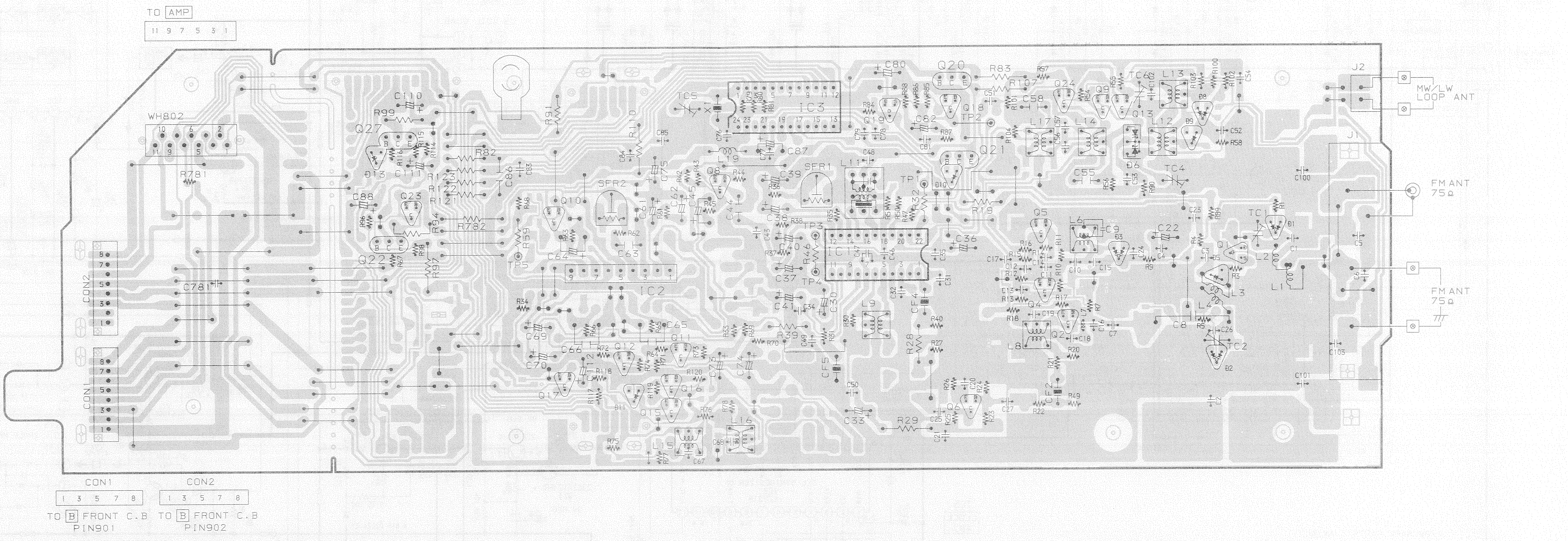
（プリント基板内のケミコンの極性表示は⊖表示です。）

SCHEMATIC DIAGRAM – 2 (TX – Z7000 E)

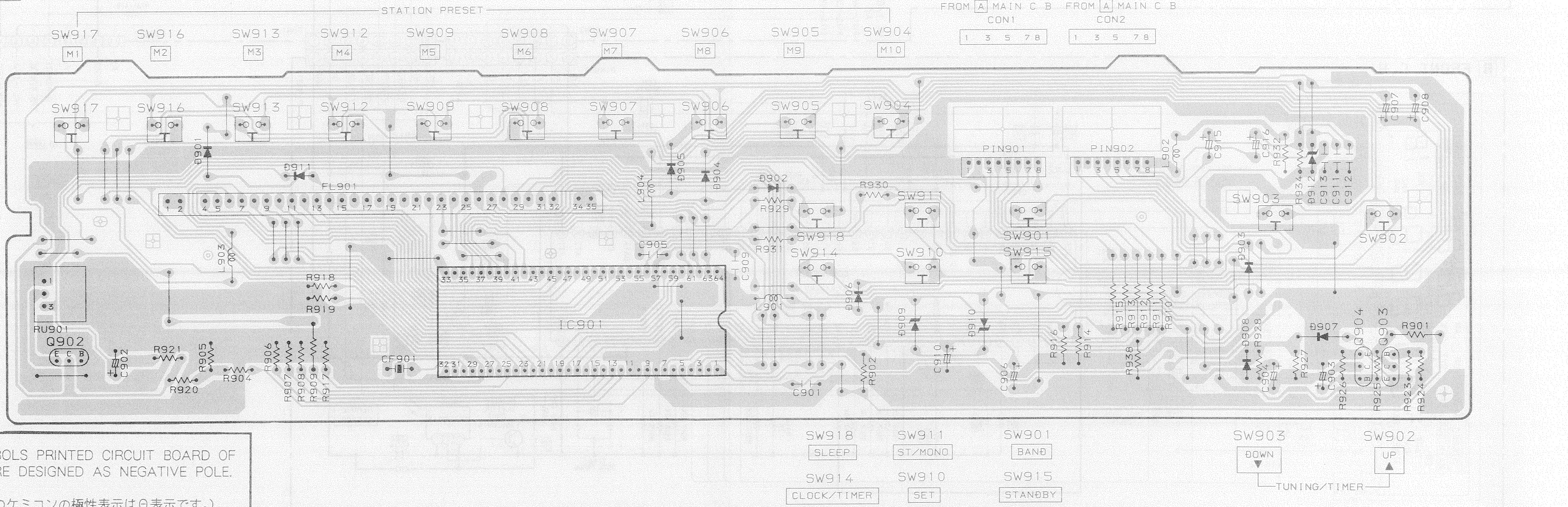

A MAIN C.B
FM ANT 75Ω
FM ANT 75Ω
MW/LW LOOP ANT
FM TRACKING ADJ
FM RF AMP Q1 2SK302 GR
FM MIX Q2 2SC2714 (O)
L8 FM IF ADJ
L8 FM IFT
FM IF AMP
L9 DC BALANCE ADJ
L9 COIL QUAD
LA1265G IC1
FM OSC Q4 2SC2714 (O)
FM OSC BUFFER Q5 2SC2714 (O)
L6 FM VT ADJ
PLL L.P.F. Q18 2SC2712 GR
Q19 2SK209Y PLL L.P.F.
FM IF AMP, DETECTOR AM OSC, MIX DETECTOR
FM IF
LEVEL DET.
QUAD DET.
VCC POST AMP
S.CURVE
SIG METER
LED DRIVE
AM OSC
AM MIX
AM IF
AM DET.
BUF
REG
AGC
SD ADJ
TP1 CLK
TP2 VT
TP3 DC
TP4 DC
Q8 2SC2712GR AM AF AMP
IC2 TA7343AP FM MPX DECORDER
PHASE DET
VCO 76KHz
1/2
TRIG
STEREO SWITCH
STEREO DECORDER
Q10 DTA114YK
MONO SW
L12, TC4 MW TRACKING ADJ
L12 MW ANT
L13 LW ANT
L13, TC6 LW TRACKING ADJ
AM RF AMP Q9 2SK211GR
Q13 2SC3326B MW/LW SW
Q24 2SC3326B MW/LW SW
L14 MW OSC
L17 LW OSC
L14 MW VT ADJ
L17 LW VT ADJ
Q20 DTA114YS AM+B SW
Q21 DTA114YS FM+B SW
L11 AM IF ADJ
CFA2450
PLL SYNTHESIZER IC3 LC7218
X1 7.2MHz
TC5 CLOCK ADJ
9V REG Q22 2SC2001K
Q23 2SC2712 (GR) 9VREG
5V REG Q27 2SC1815 (GR)
SFR1 LIGHT ON TUNING LEVEL ADJ
OUT PUT AMP Q11
OUT PUT AMP Q12 2SC1623 J5 X2
L15 L16 COIL 2POLE MPX X2
Q15 MUTE 2SC3326B X2
Q16 MUTE
MUTE Q17 2SC2712 GR
1/8W MARK PARTS : AXIAL
R, C, D, Q * MARK PARTS : 3216TYPE CHIP
R, C, L NO MARK PARTS : 2125TYPE CHIP
➡ : FM SIGNAL
⇨ : AM SIGNAL
CON1
CON2
WH802
F2
D-GND
F1
D-REMOTE
I/O SERIAL
-VFL (-30V)
+VM (+12V)
IN-R
A-GND
IN-L
TO AMP
B FRONT C.B
FL901 DISPLAY 9BT-83GK
PIN902
PIN901
-VFL
CLK
DATA
CE
N.C
AUTO-H
RMC
SD
ST/BIL
MUTE
SERIAL
T-BASE
5V
GND
D912 HZS11AIL
SW904~909, 912, 913, 916, 917 STATION PRESET
BAND
UP
DOWN
M10
M9
M8
M7
M6
M5
SET
ST/MONO
M4
M3
C/T
STD BY
M2
M1
SLEEP
TUN MODE
MEMO 10/12
D901~906, 911 1SS177
CONTROLLER IC901 UPD75268 CW-029
PBK RESET Q903 2SA1048 (GR)
Q904 2SC2458 (GR) RESET
REMOTE BUFFER Q902 2SC2001K
RU901 GP1U57IX
REMOTE SENSOR
CF901 CST4.19MGW
TUNE FREQ PRESET
SLEEP
kHz MHz
ON OFF AM PM AUTO
ONCE EVERY
MAIN SUB
STEREO
CD TAPE DAT TUNER
REC

WIRING – 2 (TX – Z7000E)

A MAIN C.B


TO AMP
11 9 7 5 3 1
WH802
CON2
CON1
C781
R781
Q27
Q23
Q22
C110
R99
R82
R122
R12
R782
R91
R110
SFR2
SFR1
Q10
Q8
Q11
Q12
Q17
IC2
IC3
IC1
TC5
C80
Q20
R83
Q18
Q19
Q21
C82
C87
C39
TP
TP2
TP3
TP4
L11
L9
L16
L15
Q24
Q9
Q13
TC6
L13
L12
L17
L14
C58
C55
TC4
Q5
L6
C9
C22
TC1
TC2
L1
L2
L3
L4
L8
Q4
Q2
CF2
C36
C37
C33
R29
R28
R39
C41
CF4
CF5
C63
C64
C65
C66
C69
C70
J2
MW/LW LOOP ANT
J1
FM ANT 75Ω
FM ANT 75Ω
CON1
1 3 5 7 8
CON2
1 3 5 7 8
TO B FRONT C.B PIN901
TO B FRONT C.B PIN902

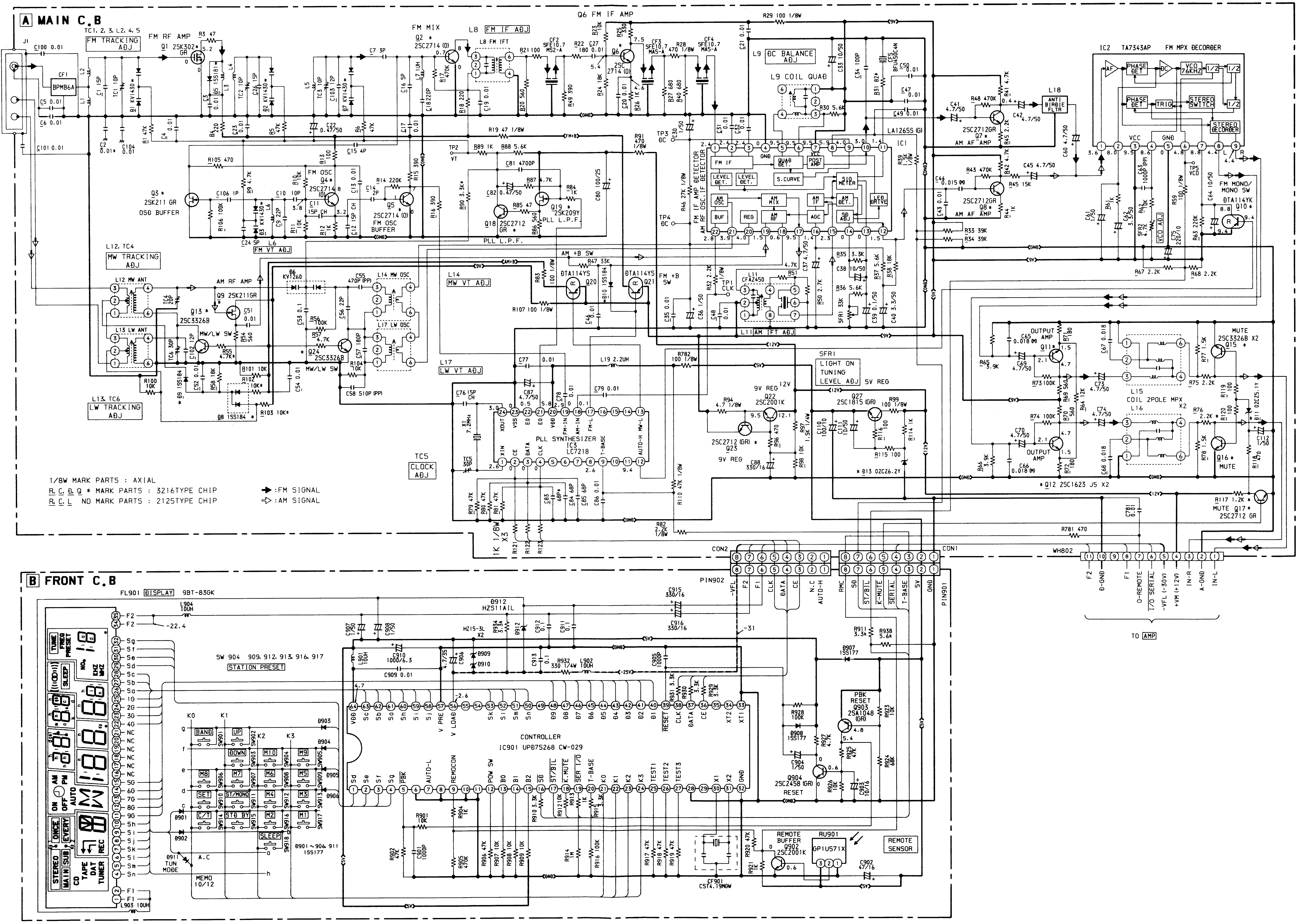
B FRONT C.B


STATION PRESET
SW917 M1
SW916 M2
SW913 M3
SW912 M4
SW909 M5
SW908 M6
SW907 M7
SW906 M8
SW905 M9
SW904 M10
FROM A MAIN C.B CON1
1 3 5 7 8
FROM A MAIN C.B CON2
1 3 5 7 8
PIN901
PIN902
FL901
IC901
RU901
Q902
Q903
Q904
D901
D902
D903
D904
D905
D906
D907
D908
D909
D910
D911
D912
L902
L903
L904
C901
C902
C903
C905
C906
C907
C908
C909
C910
C915
CF901
R901
R902
R904
R905
R906
R907
R908
R909
R917
R918
R919
R920
R921
R929
R930
R931
R936
SW918
SW914
SW911
SW910
SW901
SW915
SW903
SW902
SW918 SLEEP
SW911 ST/MONO
SW901 BAND
SW914 CLOCK/TIMER
SW910 SET
SW915 STANDBY
SW903 DOWN ▼
SW902 UP ▲
TUNING/TIMER

GRAPHIC SYMBOLS PRINTED CIRCUIT BOARD OF ELECT. CAP. ARE DESIGNED AS NEGATIVE POLE.

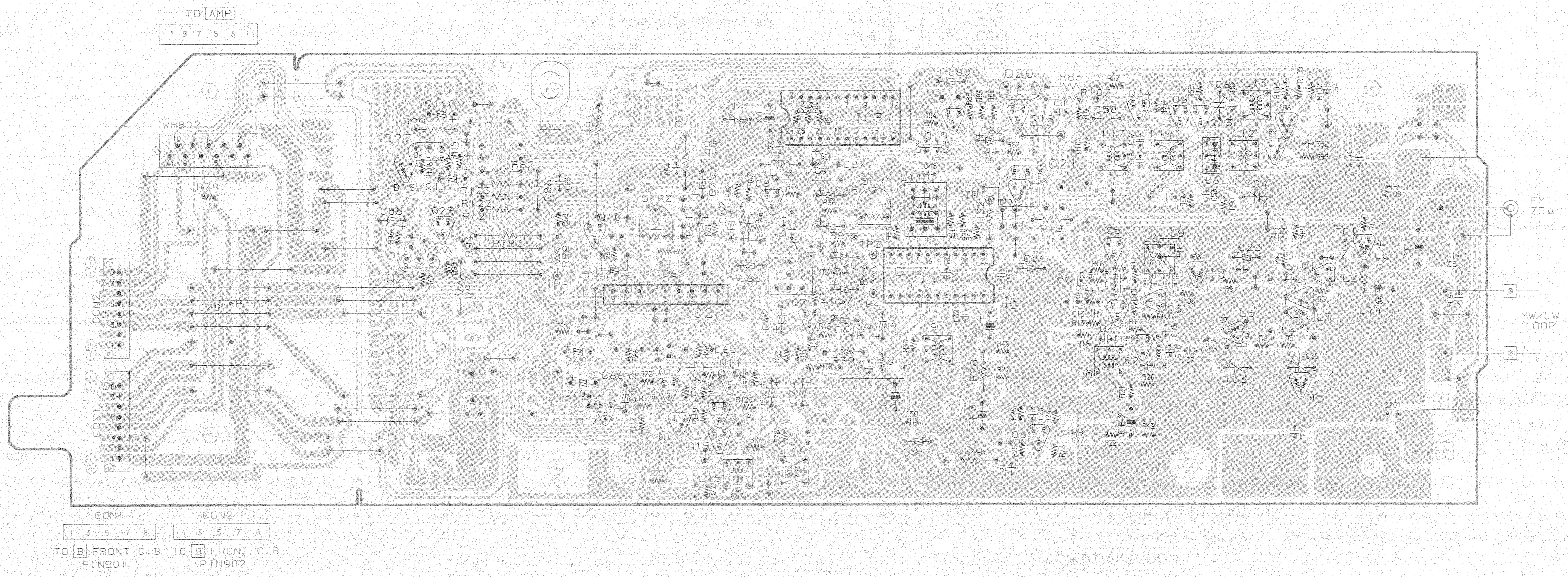
（プリント基板内のケミコンの極性表示は⊖表示です。）

SCHEMATIC DIAGRAM – 3 (TX – Z7000Z)


A MAIN C.B
FM75Ω
MW/LW LOOP
FM TRACKING ADJ
FM RF AMP
Q1 2SK302*
FM MIX
Q2 * 2SC2714 (O)
L8 FM IF ADJ
L8 FM IFT
Q6 FM IF AMP
CF2 SFE10.7 MS2-A
CF3 SFE10.7 MA5-A
CF4 SFE10.7 MA5-A
L9 DC BALANCE ADJ
L9 COIL QUAD
IC2 TA7343AP FM MPX DECORDER
L18 ANTI BIRDIE FLTR
2SC2712GR Q7 * AM AF AMP
2SC2712GR Q8 * AM AF AMP
LA1265S (G) IC1
FM IF
LEVEL DET.
QUAD DET.
POST AMP
S.CURVE
SIG METER
AM OSC
AM MIX
AM IF
AM DET.
LED DRIVE
BUF
REG
AM RF
AGC
SD ADJ
VCO 76KHz
PHASE DET
TRIG
STEREO SWITCH
STEREO DECORDER
VCO ADJ
FM MONO/MONO SW
DTA114YK Q10 *
FM OSC Q4 * 2SC2714
Q5 2SC2714 (O) FM OSC BUFFER
Q3 * 2SK211 GR OSC BUFFER
FM VT ADJ
Q18 2SC2712 GR *
Q19 * 2SK209Y PLL L.P.F.
PLL L.P.F.
L12, TC4 MW TRACKING ADJ
L12 MW ANT
L13 LW ANT
AM RF AMP
Q9 2SK211GR
Q13 * 2SC3326B
MW/LW SW
L13, TC6 LW TRACKING ADJ
L14 MW OSC
L17 LW OSC
Q24 * 2SC3326B MW/LW SW
L14 MW VT ADJ
L17 LW VT ADJ
AM +B SW
DTA114YS Q20
DTA114YS Q21
FM +B SW
L11 CFA2450
L11 AM IFT ADJ
SFR1 LIGHT ON TUNING LEVEL ADJ
5V REG
9V REG
Q22 2SC2001K
Q23 2SC2712 (GR) *
Q27 2SC1815 (GR)
* D13 02CZ6.2Y
PLL SYNTHESIZER IC3 LC7218
TC5 CLOCK ADJ
X1 7.2MHz
OUTPUT AMP Q11 *
OUTPUT AMP
L15 COIL 2POLE MPX X2
L16
MUTE 2SC3326B X2 Q15 *
Q16 * MUTE
* Q12 2SC1623 J5 X2
MUTE Q17 * 2SC2712 GR
1/8W MARK PARTS : AXIAL
R, C, D, Q * MARK PARTS : 3216TYPE CHIP
R, C, L NO MARK PARTS : 2125TYPE CHIP
➡ :FM SIGNAL
⇨ :AM SIGNAL
CON2
CON1
WH802
PIN902
PIN901
-VFL F2 F1 CLK DATA CE N.C AUTO-H
RMC SD ST/BIL K-MUTE SERIAL T-BASE 5V GND
F2 D-GND F1 D-REMOTE I/O SERIAL -VFL (-30V) +VM (+12V) IN-R A-GND IN-L
TO AMP
B FRONT C.B
FL901 DISPLAY 9BT-83GK
D912 HZS11AIL
SW 904 909, 912, 913, 916, 917 STATION PRESET
K0 K1 K2 K3
BAND UP DOWN M10 M9 M8 M7 M6 M5 SET ST/MONO M4 M3 C/T STB BY M2 M1 SLEEP
D911 TUN MODE
MEMO 10/12
D901 ~ 906, 911 1SS177
CONTROLLER IC901 UPD75268 CW-029
PBK RESET Q903 2SA1048 (GR)
Q904 2SC2458 (GR) RESET
REMOTE BUFFER Q902 2SC2001K
RU901 GP1U571X
REMOTE SENSOR
CF901 CST4.19MGW
TUNE FREQ PRESET
SLEEP
NO. KHz MHz
ON OFF AM PM AUTO
ONCE EVERY
STEREO MAIN SUB CD TAPE DAT TUNER REC

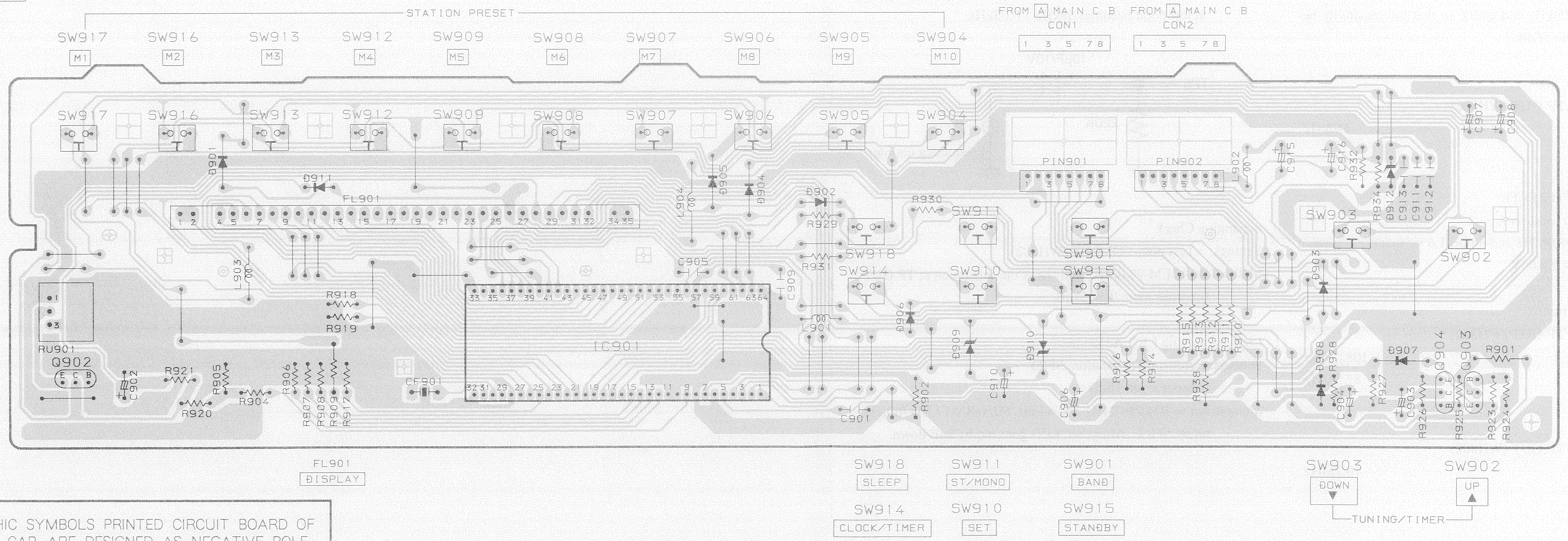
WIRING – 3 (TX – Z7000 Z)

A MAIN C.B



TO AMP
11 9 7 5 3 1
WH802
CON2
CON1
IC1
IC2
IC3
SFR1
SFR2
TP
TP2
TP3
TP4
TP5
FM 75Ω
MW/LW LOOP
J1
CON1
1 3 5 7 8
TO B FRONT C.B
PIN901
CON2
1 3 5 7 8
TO B FRONT C.B
PIN902

B FRONT C.B



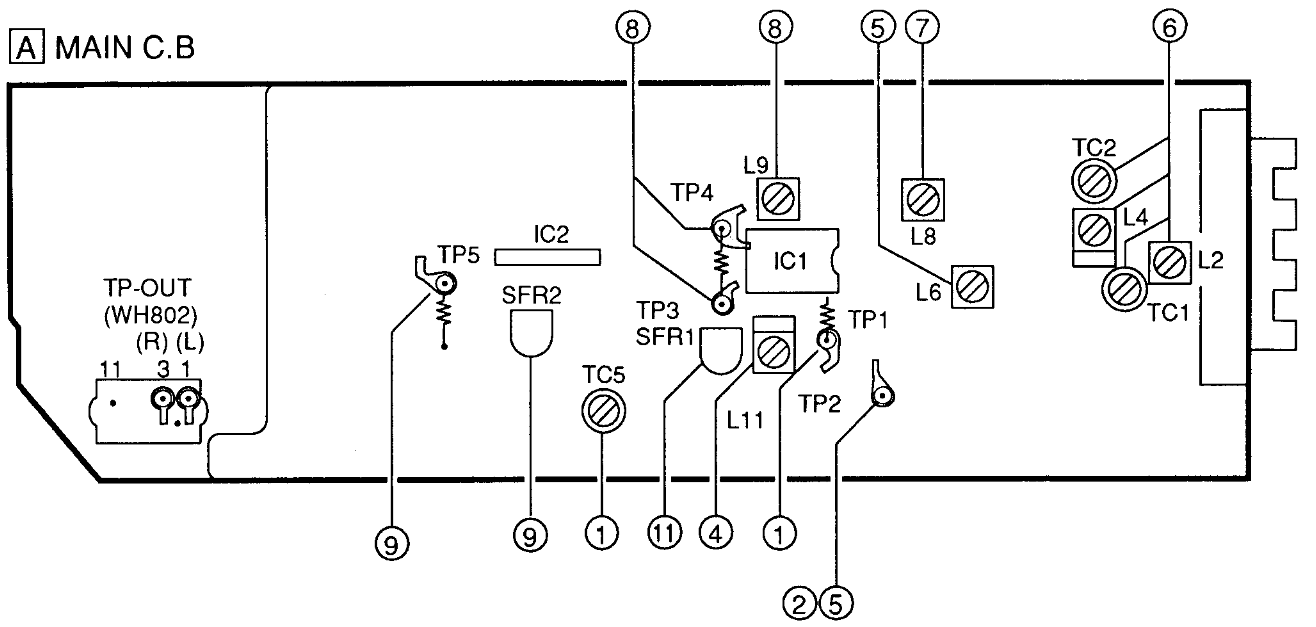
STATION PRESET
SW917 M1
SW916 M2
SW913 M3
SW912 M4
SW909 M5
SW908 M6
SW907 M7
SW906 M8
SW905 M9
SW904 M10
FROM A MAIN C.B CON1
1 3 5 7 8
FROM A MAIN C.B CON2
1 3 5 7 8
PIN901
PIN902
FL901
IC901
RU901
Q902
FL901 DISPLAY
SW918 SLEEP
SW911 ST/MONO
SW901 BAND
SW914 CLOCK/TIMER
SW910 SET
SW915 STANDBY
SW903 DOWN ▼
SW902 UP ▲
TUNING/TIMER

GRAPHIC SYMBOLS PRINTED CIRCUIT BOARD OF ELECT. CAP. ARE DESIGNED AS NEGATIVE POLE.

（プリント基板内のケミコンの極性表示は⊖表示です。）

ADJUSTMENT—1(TX—Z7000H)

A MAIN C.B



1. Clock Frequency Adjustment
   Settings: · Test point: TP1
   · Adjustment location: TC5
   Method: Set to AM 1602kHz and adjust so that the test point becomes 2052kHz±0.01kHz.

2. AM VT Check
   Settings: · Test point: TP2 (VT)
   Method: Set to AM 531kHz and check so that the test point becomes 1.1V±0.20V.

3. AM Tracking Check
   Settings: · Test point: TP-OUT (WH802)
   Method: Set to AM 999kHz and check so that the sensitivity becomes less than 56dB.

4. AM IF Adjustment
   Settings: · Test point: TP-OUT (WH802)
   L11 ·· 450kHz

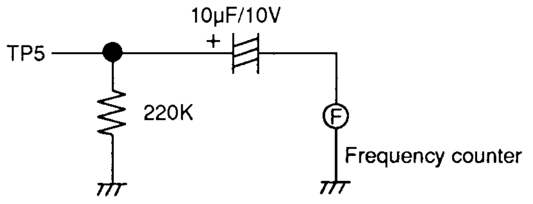
5. FM VT Adjustment
   Settings: · Test point: TP2 (VT)
   · Adjustment location: L6
   Method: Set to FM 108.0MHz and adjust L6 so that the test point becomes 9.0V±0.05V.

6. FM Tracking Adjustment
   Settings: · Test point: TP-OUT (WH802)
   TC1, 2 ································· 108.0MHz
   L2, 4 ···································· 87.5MHz

7. FM IF Adjustment
   Settings: · Test point: TP-OUT (WH802)
   L8 ·· 10.7MHz

8. DC Balance Adjustment
   Settings: · Test point: TP3, 4 TP-OUT (WH802) (Distortion)
   · Adjustment location: L9
   Method: Set to FM 98.0MHz and adjust L9 so that TP3 and TP4 output becomes 0V±0.02V.
   Next, check so that the distortion becomes less than 0.6%.

9. MPX VCO Adjustment
   Settings: · Test point: TP5
   · MODE SW: STEREO
   · Adjustment location: SFR2
   Method: Connect a capacitor and resitor as below. Set to FM 98.0MHz non modulation and adjust so that the frequency at test point becomes 38kHz±0.05kHz.



10. Separation Check
    Settings: · Test point: TP-OUT (WH802)
    Method: Set to FM 98.0MHz and check the separation at TP-OUT becomes more than 27dB.

11. Light on tunning LED Adjustment
    Settings: · Adjustment location: SFR1
    · Input level: 18dB
    Method: Set to FM 98.0MHz and adjust TUNNING LED to light on by SFR1. After that, LED goes out by 2dB down.

PRACTICAL SERVICE FIGURE —1
(TX—Z7000 H)

<FM SECTION>

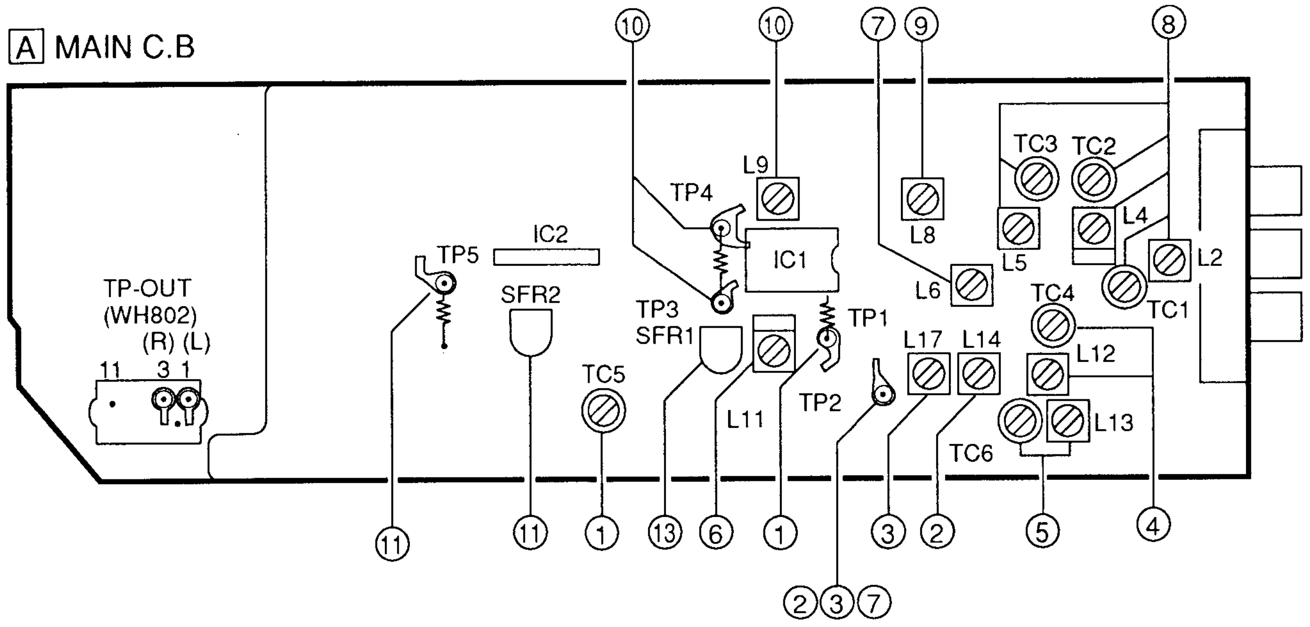
IHF Sensitivity:	4±4dB (at 87.5MHz)
(THD 3%)	2±3dB (at 98.0/108.0MHz)
S/N 50dB Quieting Sensitivity:	
	Less than 34dB
	(at 87.5/98.0/108.0MH
Signal to Noise Ratio:	(MONO)
	More than 72dB (at 98.0MHz)
	(STEREO)
	More than 65dB (at 98.0MHz)
Distortion:	(MONO)
	Less than 0.6% (at 98.0MHz)
	(STEREO)
	Less than 1.5% (at 98.0MHz)
Stereo Separation:	More than 27dB
Intermediate Frequency:	
	10.7MHz

<AM SECTION>

Sensitivity:	56±4dB (at 603kHz)
(S/N 20dB)	52±4dB (at 999/1404kHz)
Distortion:	Less than 1.5% (at 999kHz)
Intermediate Frequency:	
	450kHz

ADJUSTMENT—2 (TX—Z7000E, Z)

A MAIN C.B



1. Clock Frequency Adjustment
   Settings: · Test point: TP1
   · Adjustment location: TC5
   Method: Set to MW 1611kHz and adjust so that the test point becomes 2061kHz ±0.01kHz.

2. MW VT Adjustment
   Settings: · Test point: TP2 (VT)
   · Adjustment location: L14
   Method: Set to MW 522kHz and adjust L14 so that the test point becomes 1.0V ±0.05V.

3. LW VT Adjustment
   Settings: · Test point: TP2 (VT)
   · Adjustment location: L17
   Method: Set to LW 144kHz and adjust L17 so that the test point becomes 1.3V ±0.05V.

4. MW Tracking Adjustment
   Settings: · Test point: TP-OUT (WH802)

L12	603kHz
TC4	1,404kHz

5. LW Tracking Adjustment
   Settings: · Test point: TP-OUT (WH802)

L13	144kHz
TC6	290kHz

6. AM IF Adjustment
   Settings: · Test point: TP-OUT (WH802)

L11	450kHz

7. FM VT Adjustment
   Settings: · Test point: TP2 (VT)
   · Adjustment location: L6
   Method: Set to FM 108.0MHz and adjust L6 so that the test point becomes 9.0V ±0.05V.

8. FM Tracking Adjustment
   Settings: · Test point: TP-OUT (WH802)

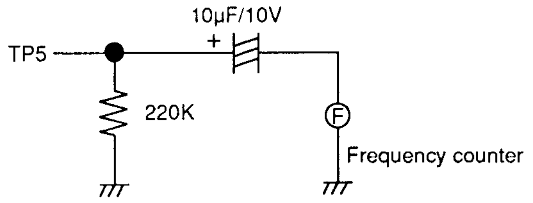
L2, 4	87.5MHz (E)
L2, 4, 5	87.5MHz (Z)
TC1, 2	108.0MHz (E)
TC1, 2, 3	108.0MHz (Z)

9. FM IF Adjustment
   Settings: · Test point: TP-OUT (WH802)

L8	10.7MHz

10. DC Balance Adjustment
    Settings: · Test point: TP3, 4 TP-OUT (WH802) (Distortion)
    · Adjustment location: L9
    Method: Set to FM 98.0MHz and adjust L9 so that TP3 and TP4 output becomes 0V ±0.02V.
    Next, check so that the distortion becomes less than 0.6%.

11. MPX VCO Adjustment
    Settings: · Test point: TP5
    · MODE SW: STEREO
    · Adjustment location: SFR2
    Method: Connect a capacitor and resitor as below. Set to FM 98.0MHz non modulation and adjust so that the frequency at test point becomes 38kHz ± 0.05kHz.



12. Separation Check
    Settings: · Test point: TP-OUT (WH802)
    Method: Set to FM 98.0MHz and check the separation at TP-OUT becomes more than 27dB.

13. Light on tunning LED Adjustment
    Settings: · Adjustment location: SFR1
    · Input level: 18dB
    Method: Set to FM 98.0MHz and adjust TUNNING LED to light on by SFR1. After that, LED goes out by 2dB down.

PRACTICAL SERVICE FIGURE—2 (TX—Z7000E, Z)

<FM SECTION>

Usable Sensitivity:	4 ± 4dB (at 87.5MHz) (E)
(THD 3%)	8 ± 4dB (at 87.5MHz) (Z)
	2 ± 4dB (at 98.0/108.0MHz) (E)
	6 ± 4dB (at 98.0/108.0MHz) (Z)
S/N 50dB Quieting Sensitivity:	
	Less than 34dB
	(at 87.5/98.0/108.0MHz) (E)
	Less than 38dB
	(at 87.5/98.0/108.0MHz) (Z)
Signal to Noise Ratio:	(MONO)
	More than 72dB (at 98.0MHz) (E)
	More than 68dB (at 98.0MHz) (Z)
	(STEREO)
	More than 65dB (at 98.0MHz) (E)
	More than 60dB (at 98.0MHz) (Z)
Total Harmonic Distortion:	
	(MONO)
	Less than 0.6% (at 98.0MHz)
	(STEREO)
	Less than 1.5% (at 98.0MHz)
Stereo Separation:	More than 27dB
Intermediate Frequency:	
	10.7MHz

<MW SECTION>

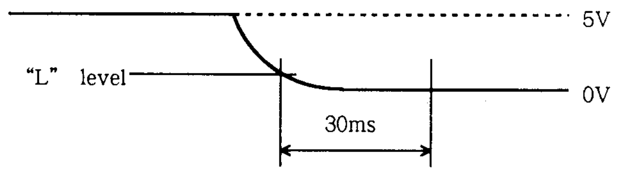
Sensitivity:	56 ± 4dB (at 603kHz)
(S/N 20dB)	52 ± 4dB (at 999/1404kHz)
Total Harmonic Distortion:	
	Less than 1.5% (at 999kHz)
Intermediate Frequency:	
	450kHz

<LW SECTION>

Sensitivity:	63 ± 5dB (at 144kHz)
(S/N 20dB)	60 ± 5dB (at 198/290kHz)
Total Harmonic Distortion:	
	Less than 1.2% (at 198kHz)
Intermediate Frequency:	
	450kHz

IC DESCRIPTION (TX – Z7000)

IC, µ PD75268CW – 029

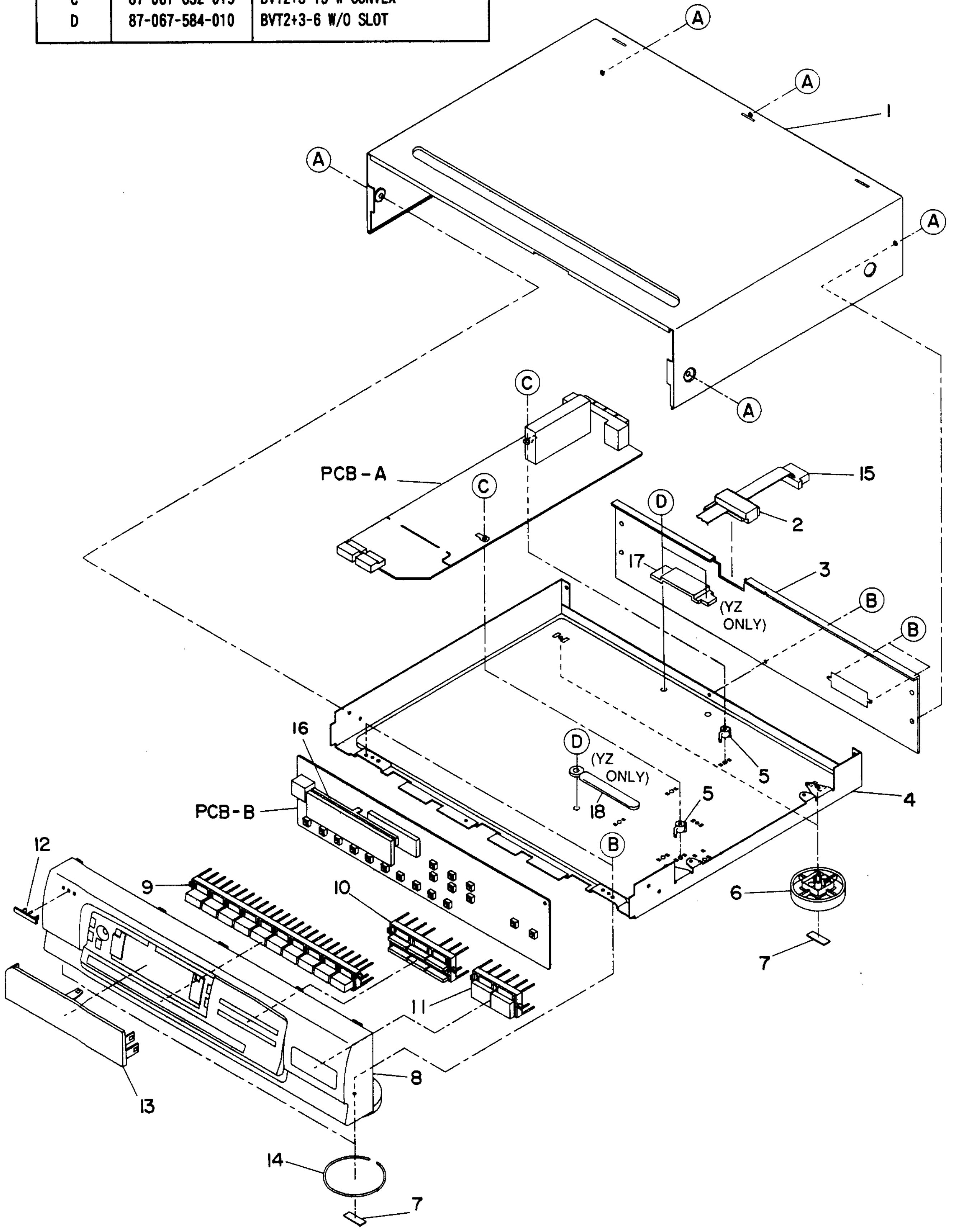
Pin No.	Pin Name	I/O	Description
1~4	Sd~Sg	O	FL display segment signal outputs, key scan signal outputs. Active "H"
5	$\overline{\text{PBK}}$	I	Power failure detection input. When "L" level continues for 30 ms or more, a power failure is detected (the unit enters the backup mode). 
6	———	–	Not used (connected to ground).
7	AUTO – L	O	When an FM broadcast is received, this pin outputs a signal depending on the AUTO condition selected by the MODE key. Active "L" when the AUTO indicator lights. • Even if the AUTO indicator changes when the frequency is being set during timer programming, the output follows the condition currently received.
8	———	–	Not used (connected to ground).
9	REMOCON	I	Serial data input for remote control. Active "H" (the rise is detected).
10	———	–	Not used (connected to ground).
11	———	–	Not used (connected to ground).
12	POW SW	I/O	Power control input port. The power is turned on and off a alternately each time the power switch of the amplifier is pressed.
13	B0	I	These input pins select the frequency range, etc. with the 3 bits depending on the destination of the units.
14	B2		
15	B1		
16	$\overline{\text{SD}}$	I	Input to stop auto scanning. Active "L". • The input is not accepted during power off. • The input cause "TUNE" to light. • Searches for SD signals every 5 ms during auto scanning. When 4 "L" pulses are conuted, sacnning will stop. • SD is not detected during manual tuning.
17	$\overline{\text{STEREO}}$	I	Input which causes the $\overline{\text{STEREO}}$ indicator to light. Active "L". • This input is not accepted during power off.
18	$\overline{\text{K • MUTE}}$	O	Outputs a muting signal when a key is operated.
19	$\overline{\text{SER I/O}}$	I/O	8 – bit serial data input/output.
20	T – BASE	I	Receives 8Hz pulses from the PLL (LC7218) as a clock signal timing.
21~24	KO~K3	I	Key matrix inputs (K2 and K3 are not used and connected to ground).
25	TEST1	I	Test mode setting inputs.
26	TEST2		
27	TEST3		
28	AC CLK	I	Receives the commercial power frequency (the AC level is 5V) as a reference signal for the clock. Not used (connected to ground).
29	———	–	Not used (not connected).
30	X1	–	A ceramic oscillator which generates the main system clock signal (4.19MHz) is connected.
31	X2		
32	GND	–	Ground pin.
33	XT1	–	Not used (connected to ground).
34	XT2		Not used (not connected).
35	POW ON	–	Not used (not connected). Goes "H"during power on and "L"during power off.
36	CE	O	Output ports which transmit serial data to the PLL (**LC7218**). **Active "H".**
37	DATA		
38	CLK		
39	$\overline{\text{RESET}}$	I	System reset input. When the TUNER MODE and BAND switches are pressed and held for 1 second, the clock and preset stations are reset.
40~48	D1~D9	O	FL display digit outputs.
49	———	–	Not used (not connected).
50	Sn	O	FL display segment outputs.
51	Sm		
52	Sℓ		
53	Sk		
54	———	–	Not used (not connected).
55	———		
56	V LOAD	I	Supplies power (– 25V) to the output buffer of the FL display driver.
57	V PRE	I	Connected to ground.
58	Sj	O	FL display segment outputs.
59	Si		
60	Sh		
61	Sa		
62	Sb		
63	Sc		
64	VDD	–	+ 5V power terminal.

IC, LC7218

Pin No.	Pin Name	I/O	Description
1	X IN	–	Clock oscillator connection pins. A 7.2MHz crystal oscillator is connected.
24	X OUT		
2	CE	I	When a key is operated, signals are transferred from the CPU. Active "H".
3	DATA		
4	CLK		
5 ≀ 8	———	–	Unused (Not connected).
9	T – BASE	O	Outputs an 8Hz signal. Transfers it to the CPU as a time base clock signal.
10	———	–	Unused (Not connected).
11	———	O	Unused (Not connected).
12	AUTO – H	–	Outputs "H" when FM stereo switching is set to AUTO.
13	MW (AM) – L	O	Outputs "L" when an MW (AM) broadcast is received.
14	———	–	Unused (Not connected).
15			
16			
17	FM – L	O	Outputs "L" when an FM broadcast is received.
18	AM – IN	I	AM local oscillation input.
19	FM – IN	I	FM local oscillation input.
20	VDD	–	Power supply pin. 5V ± 10%
21	EO_1	O	PLL error output.
22	EO_2	–	Unused (Not connected).
23	VSS	–	Ground pin.

EXPLODED VIEW (TX – Z7000)

REF. NO.	PART NO.	DESCRIPTION
A	87-067-641-019	UTT2+3-8 W/O SLOT BLK
B	87-067-660-019	BVT2+3-8 W/O SLOT BLK
C	87-067-632-019	BVT2+3-15 W CONVEX
D	87-067-584-010	BVT2+3-6 W/O SLOT



MECHANICAL PARTS LIST (TX – Z7000)

DESCRIPTIONで判断できない物は"REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q,TY
	1	★82-VT1-009-119	CAB, STEEL	※	1
	2	★89-VT5-202-010	BUSHING, CORD		1
	3	★82-VT1-010-019	PANEL, REAR YHJBN (YH)	※	1
	3	★82-VT1-016-019	PANEL, REAR YLHJBN (YLH)	※	1
	3	★82-VT1-012-019	PANEL, REAR YEBNE (YE)	※	1
	3	★82-VT1-013-019	PANEL, REAR YZBNE (YZ)	※	1
	4	---	CHASSIS, MAIN		1
	5	---	HOLDER, PCB		2
	6	★81-VX1-012-019	FOOT, REAR		2
	7	★82-VW2-211-019	FELT, 20 – 7.5 – 2		4
	8	★82-VT1-007-119	CAB, FR EX	※	1
	9	★82-VT1-002-119	KEY, 10	※	1
	10	★82-VT1-003-019	KEY, BAND	※	1
	11	★82-VT1-004-019	KEY, UP／DOWN	※	1
	12	★81-DS1-011-019	BADGE, AIWA N		1
	13	★82-VT1-005-019	WINDOW, TU	※	1
	14	★81-VW1-015-019	RING FOOT		2
	15	★82-VT1-605-010	CORD, FG 11P	※	1
	16	★81-690-201-110	GUIDE, FL		1
	17	★81-VX1-210-110	HLDR, WIRE G (YZ)		1
	18	★87-038-039-010	WIRE, BINDER (YZ)		1

MODEL NO.

SX – Z5000

■SPEAKER LIST (SX – Z5000)

PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q.TY
	1	82-VS2-002-010	PANEL WOOFER (H,HE)	※	1
	2	82-VS2-023-010	PANEL W E (E,K,Z)	※	1
	3	82-VS2-012-010	PANEL TW ASSY (H,HE)	※	1
	4	82-VS2-021-010	PANEL T ASSY E (E,K,Z)	※	1
	5	82-VS2-008-010	GRILL FRAME (H,HE)	※	1
	6	82-VS2-009-010	GRILL FRAME (E,K,Z)	※	1
	7	82-VS2-602-010	SPEAKER WOOFER (H,HE)	※	1
	8	82-VS2-604-010	SPEAKER WOOFER (E,K,Z)	※	1
	9	89-VS5-609-010	SPEAKER TWEETER (H,HE)		1
	10	82-MS1-603-010	SPEAKER TWEETER (E,K,Z)		1
	11	82-VS2-016-010	PANEL M ASSY (H,HE)	※	1
	12	82-VS2-022-010	PANEL M ASSY E (E,K,Z)	※	1
	13	81-672-612-010	SPEAKER CORD (H,HE)		1
	14	82-VS2-025-010	SPEAKER CORD (E,K,Z)	※	1

REFERENCE NAME LIST

ELECTRICAL SECTION

DESCRIPTION	REFERENCE NAME
ANT	ANTENNAS
C-	CHIP
C-CAP	CAP, CHIP
C-CAP TN	CAP, CHIP TANTALUM
C-COIL	COIL, CHIP
C-DI	DIODE, CHIP
C-DIODE	DIODE, CHIP
C-FET	FET, CHIP
C-FOTR	FILTER, CHIP
C-JACK	JACK, CHIP
C-LED	LED, CHIP
C-RES	RES, CHIP
C-SFR	SFR, CHIP
C-SLIDE SW	SLIDE SWITCH, CHIP
C-SW	SWITCH, CHIP
C-TR	TRANSISTOR, CHIP
C-VR	VOLUME, CHIP
C-ZENER	ZENER, CHIP
CAP, CER	CAP, CERA-SOL
CAP, E	CAP, ELECT
CAP, M/F	CAP, FILM
CAP, TC	CAP, CERA-SOL
CAP, TC-U	CAP, CERA-SOL SS
CAP, TN	CAP, TANTALUM
CERA FIL	FILTER, CERAMIC
CF	FILTER, CERAMIC
DL	DELAY LINE
E/CAP	CAP, ELECT
FILT	FILTER
FLTR	FILTER
FUSE RES	RES, FUSE
MOT	MOTOR
P-DIODE	PHOTO DIODE
P-SNSR	PHOTO SENSER
P-TR	PHOTO TRANSISTOR
POLY VARI	VARIABLE CAPACITOR
PPCAP	CAP, PP
PT	POWER TRANSFORMER
PTR, RES	PTR, MELF
RC	REMOTE CONTROLLER
RES NF	RES, NON-FLAMMABLE
RESO	RESONATOR
SHLD	SHIELD
SOL	SOLENOID
SPKR	SPEAKER
SW, LVR	SWITCH, LEVER
SW, RTRY	SWITCH, ROTARY
SW, SL	SWITCH, SLIDE
THMS	THERMISTOR
TR	TRANSISTOR
TRIMMER	CAP, TRIMMER
TUN-CAP	VARIABLE CAPACITOR
VIB, CER	RESONATOR, CERAMIC
VIB, XTAL	RESONATOR, CRYSTAL
VR	VOLUME
ZENER	DIODE, ZENER
ｻｰｼﾞｻﾌﾟﾚｯｻ	SERGESUPPRESSOR
ｾﾗｺﾝ	CAP, CERA

MECHANICAL SECTION

DESCRIPTION	REFERENCE NAME
ADHESHIVE	SHEET ADHESHIVE
AZ	AZIMUTH
BAR-ANT	BAR-ANTENNA
BAT	BATTERY
BAT, CONTACT ASSY	BATTERY CONTACT ASSY
BATT	BATTERY
BRG	BEARING
BTN	BUTTON
CAB	CABINET
CASS	CASSETTE
CHAS	CHASSIS
CLR	COLLAR
CONT	CONTROL
CRSR	CURSOR
CU	CUSHION
CUSH	CUSHION
DIR	DIRECTION
DUBB	DUBBING
FL	FRONT LOADING
FLY-WHL	FLYWHEEL
FR	FRONT
FUN	FUNCTION
G-CU	G-CUSHION
HDL	HANDOL
HIMERON	CLOTH
HINGE, BAT	HINGE, BATTERY
HLDR	HOLDER
HT-SINK	HEAT SINK
IB	INSTRUCTION BOOKLET
IDLE	IDLER
IND, L-R	INDICATOR, L-R
KEY, CONT	KEY, CONTROL
KEY, PRGM	KEY, PROGRAM
KNOB, SL	KNOB, SLIDE
KNOB, VOL REV	KNOB, VOLUME REV
LBL	LABEL
LID, BATT	LID, BATTERY
LID, CASS	LID, CASSETTE
LVR	LEVER
P-SP	P-SPRING
PANEL, CONT	PANEL, CONTORL
PANEL, FR	PANEL, FRONT
PRGM	PROGRAM
PULLY, LOAD MO	PULLY, LOADING MOTOR
RBN	RIBBON
S-	SPECIAL
SEG	SEGMENT
SH	SHEET
SHLD-SH	SHIELD-SHEET
SL	SLIDE
SP	SPRING
SP-SCREW	SPECIAL-SCREW
SPACER, BAT	SPACER, BATTERY
SPR	SPRING
SPR-P	P-SPRING
SPR-PC-PUSH	P-SPRING, C-PUSH
SW	SWITCH
T-SP	T-SPRING
TERM	TERMINAL
TRIG	TRIGGER
TUN	TUNING
VOL	VOLUME
W	WASHER
WHL	WHEEL
WORM-WHL	WORM-WHEEL
ｼﾞｸｱｰﾑ	ARM, SHAFT
ｼﾞｸｶﾞｲﾄﾞ	GUIDE, SHAFT
ｽﾄﾗｯﾌﾟ	STRAP
ﾋﾝｼﾞ	HINGE